GRUNDIG

SCHALTBILD
CIRCUIT DIAGRAM
SCHEMA

TV

Schaltbild
Circuit Diagram
Schema

Ⓓ Btx * 32700 #

CUC 1881

(9.21010-01)
(9.21009-01)

Ⓓ

Abgleichvorschriften

Alle nicht beschriebenen Einstellelemente sind werksseitig abgeglichen und dürfen im Service-Fall nicht verstellt werden.

1. Serviceeinstellungen über Bildschirm-Menü

1.1 Tuner-AGC
Nach Austausch oder Reparatur des ZF-Verstärkers oder des Tuners den verzögerten Regelspannungseinsatz kontrollieren und gegebenenfalls einstellen.
- Normtestbild auf hohen UHF Kanal legen, die HF sollte mindestens 1,5 mV (64 dBµV) betragen.
- Das Menü "Tuner-AGC" über das Service Programm "Info Center"--> "Sonderfunktionen" --> "Service" --> "Kennzahl 8500" --> über die Menüführung aufrufen.
- Mit den Tasten ◀ ▶ das Bild so abstimmen, daß der Sender gerade zu rauschen beginnt. Danach soweit zurückstellen daß das Bild gerade rauschfrei wird, Wert mit "OK" abspeichern.

1.2 Weißabgleich
Nach Bildrohrwechsel, Austausch oder Reparatur der Bildrohrplatte die Weißwerteinstellung kontrolieren und gegebenenfalls einstellen.
- Das Menü "Weißabgleich" über das Service Programm "Info Center" --> "Sonderfunktionen" --> "Service" --> "Kennzahl 8500" über die Menüführung aufrufen.
- Mit den Tasten ◀ ▶ die Werte für VG und VB so einstellen, daß das Weißfeld in der Bildmitte unbunt wird. Wert mit "OK" abspeichern.

2. Serviceeinstellungen am Chassis

2.1 Abgleich des Diodenmodulators
Die Brückenspule L 573 ist in der Fertigung richtig abgeglichen und solte nicht verdreht werden.
- Das Menü "Geometrie" über das Service Programm --> "Infom Center"--> "Sonderfunktionen" --> "Service" --> "Kennzahl 8500" aufrufen.
- Die Bildbreite auf Minimum stellen.
- Den Tastkopf eines Zweistrahloszilloskops an den Kollektor des Transistors T 572 einhängen.

ⒼⒷ

Adjustment procedures

All adjustment controls not mentioned in this description are adjusted during production and must not be re-adjusted in the case of repairs.

1. Service adjustments with the On-Screen Display

1.1 Tuner AGC
After replacement or repair of the IF amplifier or tuner check the Delayed Automatic Gain Control Voltage and re-adjust if necessary.
- Feed in a standard test pattern at a channel in the upper range of the UHF Band. The RF should be at least 1.5 mV (64 dBµV).
- Call up the "Tuner-AGC" menu via the Service Programme "Info Center"--> "Special Functions" --> "Service" --> "Code Number 8500".
- With the ◀ ▶ buttons tune the TV station that noise just begins to appear in the picture. Then tune in the reverse direction until the picture just becomes noise free. Store with "OK".

1.2 White balance
After replacement of the picture tube, replacement or repair of the picture tube panel, check the white balance and re-adjust if necessary.
- Call up the "White Balance" menu via the Service Programme "Info Center" --> "Special Functions" --> "Service" --> "Code Number 8500".
- With ◀ ▶ set the VG and VB values (amplification green and blue) so that the white rectangular area in the middle of the picture becomes achromatic. Store with "OK"

2. Service adjustments on the Chassis

2.1 Adjustment of the diode modulator stage
The bridge coil L 573 is correctly adjusted during production and should not be re-adjusted any more.

- Call up the "Geometry" menu via the Service Programme --> "Info Center"--> "Special Functions" --> "Service" --> "Code Number 8500".
- Set the horizontal amplitude to minimum.
- Connect one test probe of a dual-beam oscilloscope to the collector of the transistor T 572.

Ⓘ

Taratura

Tutti i componenti non descriti, sono stati tarati in fabbrica e non devono essere regolati in caso di servizio.

1. Operazioni di servizio mediante menu'

1.1 AGC-Tuner
Dopo la sostituzione o la riparazione dell' amplificatore FI è necessario controllare ed eventualmente ritoccare la tensione di regolazione ritardata del Tuner.
- Applicare un monoscopio su un canale alto UHF. Il segnale AF deve essere almeno 1,5 mV (64dB µV).
- Richiamere il menu' "Tuner-AGC" mediante Service Programm "Info Center" --> "Funzioni speciali" --> "Service" --> "Codice 8500". Coi tasti ◀ ▶ regolare l'immagine finchè comincia ad apparire fruscio. Quindi regolare in senso contrario finchè l'immagine appare priva di fruscio e memorizzare con "OK".

1.2 Taratura del bianco
Dopo la sostuzione del cineescopio o di una riparazione sulla piastra cinescopio, è necessario controllare ed eventualmente ritoccare la taratura del bianco.
- Richiamere con il menu' "Taratura del bianco" mediante Service Programm "Info Center" --> "Funzioni speciali" --> "Service" --> "Codice 8500". Coi tasti ◀ ▶ regolare i valori per VG e VB modo che il campo bianco al centro dell' immagine sia privo di colore. Memorizzare con "OK".

2. Operazioni di taratura sul telaio

2.1 Taratura del modulatore a diodi
La bobina L 573 viene opportunamente tarata in fabbrica, quindi non devrebbe essere ritoccata.

- Richiamare il menu' "Geometria" mediante Service Programm "Info Center" --> "Funzioni speciali" --> "Service" --> "Codice 8500".

- Regolare la larghezza d'immagine al minimo.
- Applicare una sonda di un oscilloscopio o dopia traccia al collettore del transistor T 572.

- Den anderen Tastkopf zwischen den Dioden D 571 und D 572 anschließen.
- Mit der Spule L 573 beide Oszillogramme auf gleiche Impulsbreite abgleichen.
- Bildbreite wieder nach Testbild einstellen und speichern mit "OK".

3. VT-Anpassungsabgleich

Der Einsteller R 2856 ist bei der Auslieferung auf kleinste Höhenanhebung eingestellt. Treten trotz einwandfreiem Antennensignal Zeichenfehler auf, R 2856 langsam verstellen, bis die Fehler verschwinden. Nicht weiterdrehen, da die Fehlerhäufigkeit wieder zunehmen kann.
Während des Abgleichs ist es notwendig, die Seite 199 ständig neu anzuwählen, da nur so die Seite neu eingelesen wird und eine Beurteilung der Fehlerschwelle möglich ist.

4. Bildrohrplatte

Einstellung der Schirmgitterspannung U_{SG}
Nach Bildrohrwechsel, Austausch oder Reparatur der Bildrohrplatte die Sperrpunkteinstellung überprüfen und wenn nötig einstellen.
- Testbild einspeisen.
- Bildschirmhelligkeit mit der Fernbedienung so einstellen, daß die Grauflächen gerade dunkel werden.
- Gerät auf AV-Betrieb schalten.
- An den Testpunkten R,G,B mit einem hochohmigem Voltmeter (Längswiderstand ca. 220 kOhm) die höchste Spannung ermitteln.
- Mit dem Einstellregler U_{SG} auf der Bildrohrplatte den höchsten Spannungswert auf ca. 175 V abgleichen.
  Bei Rücklaufstreifen auf dem Bildschirm, die Spannung um ca. 10 V niedriger einstellen.

- Connect the second test probe between the diodes D 571 and D 572.
- Adjust the coil L 573 so that both oscillograms have the same pulse width.
- Re-adjust the horizontal amplitude according to the test pattern and store.

3. Videotext matching adjustment

At the time of delivery the control R 2856 is set to the smallest treble boost .
If, with a perfect aerial signal, character faults occur, turn R 2856 slowly until the faults disappear. Do not turn R 2856 any further as the error rate may increase again.
Page 199 must always be selected new during the adjustment, so that the page is read in again making it possible to evaluate the error rate.

4. CRT board

Adjustment of the screen grid voltage U_{SG}
After replacement of the CRT tube, replacement or repair of the picture tube board check the cut-off point and re-adjust if necessary.
- Feed in a test pattern.
- With the remote control adjust the screen brightness so that the grey areas just become dark.
- Switch the TV receiver to AV operation.
- Connect a high-ohmic voltmeter (series resistance approx. 220 kOhm) to the test points R, G, B and determine the maximum voltage.
- With the control U_{SG} on the picture tube panel set the maximum voltage level to approx. 175 V.
  If retrace lines are visible on the screen reduce the voltage by approx. 10 V .

- L'altra sonda tra i diodi D 571 e D 572.
- Agendo su L 573 i due oscillogrammi devono presentare la medesima larghezza d'impulso.
- Ripristinare la larghezza d'imagine e memorizzare con "OK".

3. Adattamento VT

Dopo la sostuzione o la riparazione dell' unita di commando controllare l'adattamento VT.
Il trimmer R 2856 viene regolato al valore medio in fabbrica.
Nel caso di errore di decodificia nonostante un buon segnale in antenna, agire lentamente su R 2856 finchè l'errore si elimina.
Non regolare oltre altrimenti la possibilità di errore aumenta. Durante la regolazione è necessario richiamare spesso la pagina test di Televideo, solo cosi è possibile giudicare la soglia dell' errore.

4. Piastra cinescopio

Regolazione della tensione di griglia schermo U_{SG}
Dopo il cambiamento del tubo, sostituzione del cinescopio o di una riparazione sulla piastra cinescopio, controllare il valore del punto di blocco ed eventualmente correggerlo.
- Applicare un monoscopio
- Regolare la luminosità, mediante telecomando, finchè i gradini del grigio accennano a diventare scuri.
- Commutare l'apparecchio in AV.
- Con un volmetro ad alta impedenza (ca. 220 Kohm) individuare la tensione più elevata sui punti di misura RGB.
- Col trimmer U_{SG}, sulla piastra cinescopio, tarare per un valore max di ca. 175 V.
  Se appaino tracce di ritorno nell'imagine, ridurre la tensione di ca. 10 V.

Schaltplansymbole / Circuit diagram symbols / Simboli sullo schema

Zeilenbreite / Line width / Amplitude horizontale / Larghezza di riga / Amplitudo Horizontal

Hor. Frequenz / Hor. Frequency / Fréqu. horiz. / Frequ. orizz. / Frequ. horiz.

Hor. Linearität / Hor. linearty / Linéar. Horizont / Linear. orizz. / Lineal. Horizontal

Bildlage hor. / Hor. picture position / Cadrage horizont. / Posizione orizz. dimmagine / Centrado horizontal

Ost-West Amplitude / East-West amplitude / Amplitude Est - Ouest / Ampiezza Est-Ovest / Amplitud E-O

Ost-West Symmetrie / East-West symm. / Symm. Est-Ouest / Simm. Est-Ovest / Simetria E-O

Bildamplitude / Frame ampl. / Ampl. verticale / Ampiezza d'immagine / Ampl. vertical

Vert. Frequenz / Vert. frequency / Fréqu. vert. / Frequ. vert. / Frequ. vert.

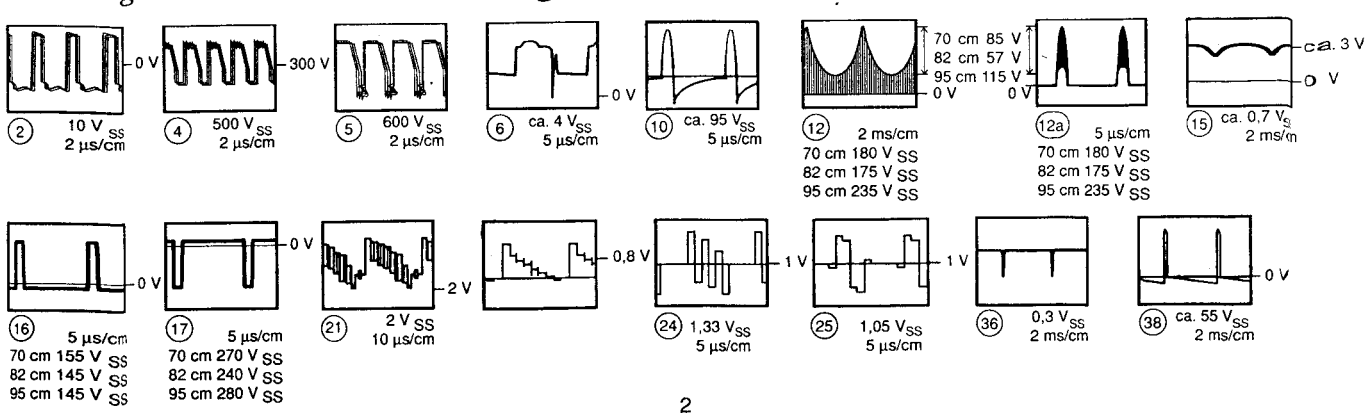
Vert. Linearität / Vert. linearity / Linéarité vert. / Linear. vert. / Linealidad vert.

Bildlage vert. / Vert. picture position / Cadrage vertical / Posiz. vert. d'immagine / Centrado vert.

Focusregler / Focus control / Réglage de focalisation / Regolat. di focaliz. / Control de foco

Trapez / Trapezium / Trapèze / Trapezio / Trapecio

Oszillogramme - Chassis / Oscillogrammes chassis / Oszillogrammi telaio



② 10 V_{SS} 2 µs/cm
④ 500 V_{SS} 2 µs/cm
⑤ 600 V_{SS} 2 µs/cm
⑥ ca. 4 V_{SS} 5 µs/cm
⑩ ca. 95 V_{SS} 5 µs/cm
⑫ 2 ms/cm
⑫a 5 µs/cm
⑮ ca. 0,7 V_{SS} 2 ms/cm
⑯ 5 µs/cm
⑰ 5 µs/cm
㉑ 2 V_{SS} 10 µs/cm
㉔ 1,33 V_{SS} 5 µs/cm
㉕ 1,05 V_{SS} 5 µs/cm
㊱ 0,3 V_{SS} 2 ms/cm
㊳ ca. 55 V_{SS} 2 ms/cm

TOP ENTFERRER
TOP ENLEVEMENT DE ELIMINATION BOARD
KEMOVER DI ISOLAMENTO
A LA MASA ANTIPARASITA

NICHT NETZGETRENNTES SCHALTUNGSTEIL
CIRCUIT NOT MAINS ISOLATED
CIRCUIT NON ISOLE DU SECTEUR
CIRCUITO NON SEPARATO DALLA RETE
ATENCION! SECTOR DE COM NO SEP DE LA RED

PRIMAERMASSE ACHTUNG NICHT NETZGETRENNT
PRIMARY CHASSIS NOT MAINS ISOLATED
MASSE PRIMAIRE ATTENTION NON ISOLE DE SECTEUR
MASSA PRIMARIO ATTENZ NON SEPARATO DALLA RETE
MASA PRIMARIA ATENCION NO SEPARADA DE LA RED

SPANNUNGSVERSORGUNGSEINHEIT 29305-106 01
POWER SUPPLY UNIT
UNITE D'ALIMENTATION DE TENSION
UNITA DI ALIMENTAZIONE
UNIDAD DE ALIMENTACION DE TENSION

NUR BEI FUTABA
ONLY ON FUTABA
SEUL POUR FUTABA
SOLO CON FUTABA

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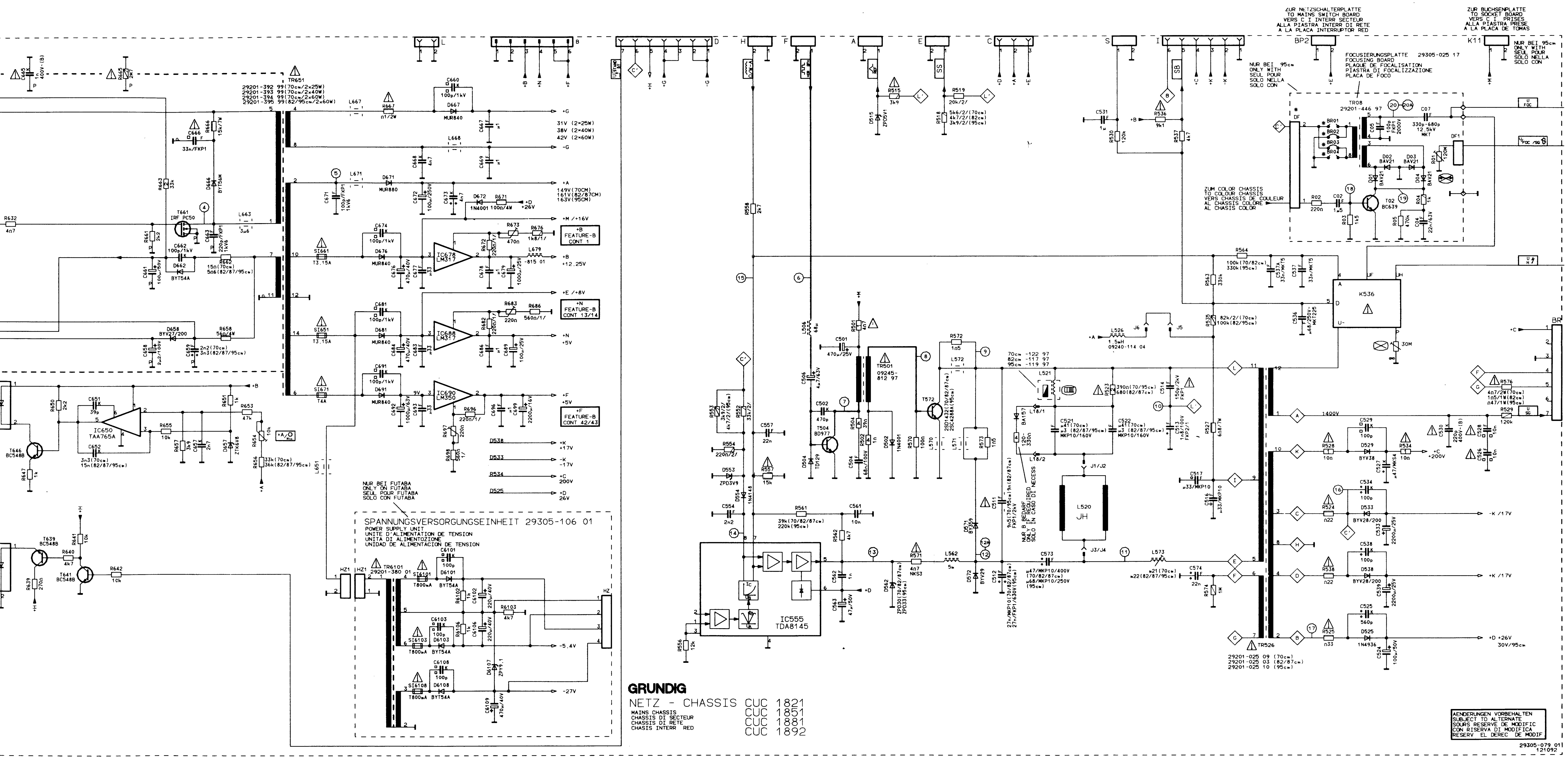
NETZ - CHASSIS CUC 1821
MAINS CHASSIS CUC 1851
CHASSIS DI SECTEUR CUC 1881
CHASIS INTERR RED CUC 1892


ZUR NETZSCHALTERPLATTE
TO MAINS SWITCH BOARD
VERS C I INTERR SECTEUR
ALLA PIASTRA INTERR DI RETE
A LA PLACA INTERRUPTOR RED
ZUR BUCHSENPLATTE
TO SOCKET BOARD
VERS C I PRISES
ALLA PIASTRA PRESE
A LA PLACA DE TOMAS
NUR BEI 95cm
ONLY WITH
SEUL POUR
SOLO NELLA
SOLO CON
FOCUSIERUNGSPLATTE 29305-025 17
FOCUSING BOARD
PLAQUE DE FOCALISATION
PIASTRA DI FOCALIZZAZIONE
PLACA DE FOCO
ZUM COLOR CHASSIS
TO COLOUR CHASSIS
VERS CHASSIS DE COULEUR
AL CHASSIS COLORE
AL CHASIS COLOR
BILDROHR-PLATTE
CRT BASE
C I TUBE CATHOD
PIASTRA CINESC
PLACA-ZOCALO TRC
TR651
29201-392 99(70cm/2×25W)
29201-393 99(70cm/2×40W)
29201-394 99(70cm/2×60W)
29201-395 99(82/95cm/2×60W)
31V (2×25W)
38V (2×40W)
42V (2×60W)
149V(70CM)
161V(82/87CM)
163V(95CM)
+B FEATURE-B CONT 1
+N FEATURE-B CONT 13/14
+F FEATURE-B CONT 42/43
IC678 LM317
IC688 LM317
IC690 LM350
IC650 TAA765A
NUR BEI FUTABA
ONLY ON FUTABA
SEUL POUR FUTABA
SOLO CON FUTABA
SPANNUNGSVERSORGUNGSEINHEIT 29305-106 01
POWER SUPPLY UNIT
UNITE D'ALIMENTATION DE TENSION
UNITA DI ALIMENTOZIONE
UNIDAD DE ALIMENTACION DE TENSION
TR6101 29201-380 01
IC555 TDA8145
TR501 09245-812 97
NUR B BEDARF
ONLY IF REQUIRED
SOLO IN CASO DI NECESS
K536
TR08 29201-446 97
TR526
29201-025 09 (70cm)
29201-025 03 (82/87cm)
29201-025 10 (95cm)
GRUNDIG
NETZ - CHASSIS CUC 1821
MAINS CHASSIS CUC 1851
CHASSIS DI SECTEUR CUC 1881
CHASSIS DI RETE CUC 1892
CHASIS INTERR RED
AENDERUNGEN VORBEHALTEN
SUBJECT TO ALTERNATE
SOURS RESERVE DE MODIFIC
CON RISERVA DI MODIFICA
RESERV EL DEREC DE MODIF
29305-079 01
121092

*	R401	R402	R407	R408	R409	C401	R423
70cm	240k	82k	560n	1n8	1n8	390p	33k
82/87cm	220k	68k	270n	1n2	1n5	560p	33k
95cm LAVENDER	220k	56k	1k	1n8	1n8	470p	33k
117cm	240k	82k	100n	1n8	1n8	390p	27k

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COLOR CHASSIS CUC 1821
COLOUR CHASSIS CUC 1851
CHASSIS COULEUR CUC 1881
CHASSIS COLORE CUC 1892
CHASIS COLOR

BUCHSENPLATTE 29304-060 88
-060 89 PIP
SOCKET BOARD
C.I PRISES
PIASTRA PRESE
PLACA DE TOMAS

VIDEO 29504 - 105 71

VIDEOTEXT 29504 - 108 80
TELETEXT
TELETEXTE
TELEVIDEO
TELETEXTO

FEATURE-BOX 29504-103 07
-103 08

NF-VERSTAERKER 29504-104 20
AF AMPLIFIER -104 22
AMPLI BF -104 54
VF AMPLI
AMPL DE BF

IC350
TDA7273

IC360
SDA3526-2

ZUR FEATURE-BOX
TO
VERS
ALLA
A LA

ZUR P I P -EINHEIT
TO P I P UNIT
VERS UNITE P I P
ALL'UNITA P I P
A LA UNIDAD P I P

ZUR BR-PLATTE
TO CRT BASE
VERS C. I. TUBE CATHID
ALLA PIASTRA CINESC
A LA PLACA-ZOCALO TRC

BEI BEDARF
ON REQUEST
SI NECESSAIRE
SE OCCORRE
EN CASO NECESARIO

ZUR BUCHSENPLATTE
TO SOCKET BOARD
VERS C. I PRISES
ALLA PIASTRA PRESE
A LA PLACA DE TOMAS

ZUR KOPFH.-BUCHSE
TO HEADPHONE SOCKET
VERS PRISE CASQUE
ALLA PRESA CUFFIA
A LA TOMAS DE AURICULARES

BEI P I P
WITH
POUR
CON

ZUR „KOMMERTELEFON B. CINEMA"
TO "TOKE DISTRIBUTION WITH CINEMA"
POUR "DISTRIBUTION DE JETONS AVEC CINEMA"
PARA "DISTRIBUCION DEL BILLETE NEL CINEMA"

SCHUTZSCHALTUNG VERT
VERT PROTECTIVE CIRCUITRY
CIRCUIT DE PROT. VERT
CIRCUITO DI PROTEZIONE VERT
CIRCUITO PROTECTOR VERICAL

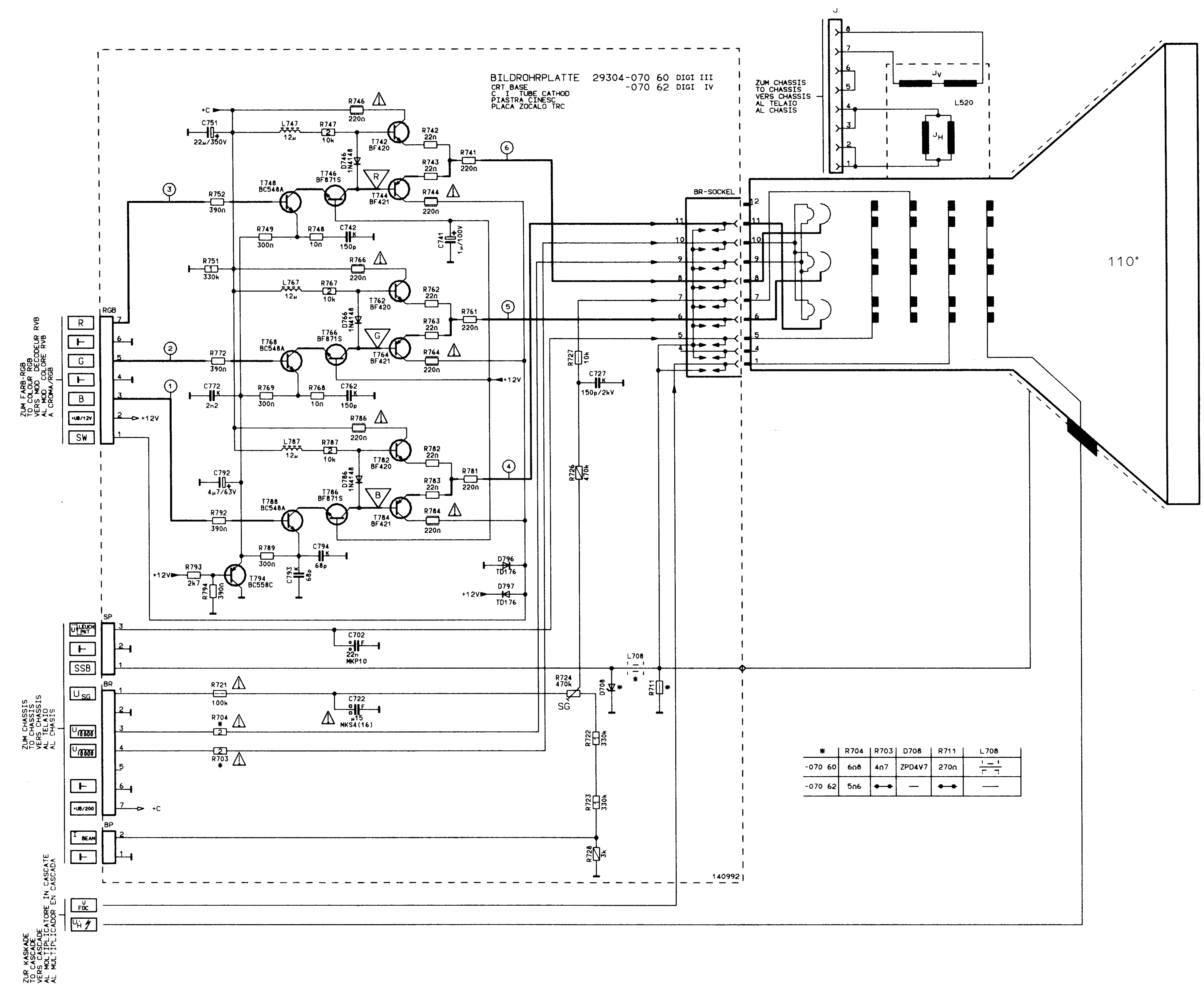
SCHUTZSCHALTUNG-TRENNSTELLE
PROTECTIVE CIRCUITRY SEPARATION POINT
POINT DE SEPARATION DU CIRCUIT DE PROTECTION
PUNTO DI SEZIONAMENTO CIRCUITO DI PROTEZIONE
PUNTO SEPARADOR PARA CIRCUITO DE PROTECCION

UEBER GESTELLE
VIA CHASSIS
POINT DE SOUDURE
PUNTO DI SALDATURA
PUENTE DE SOLDADURA

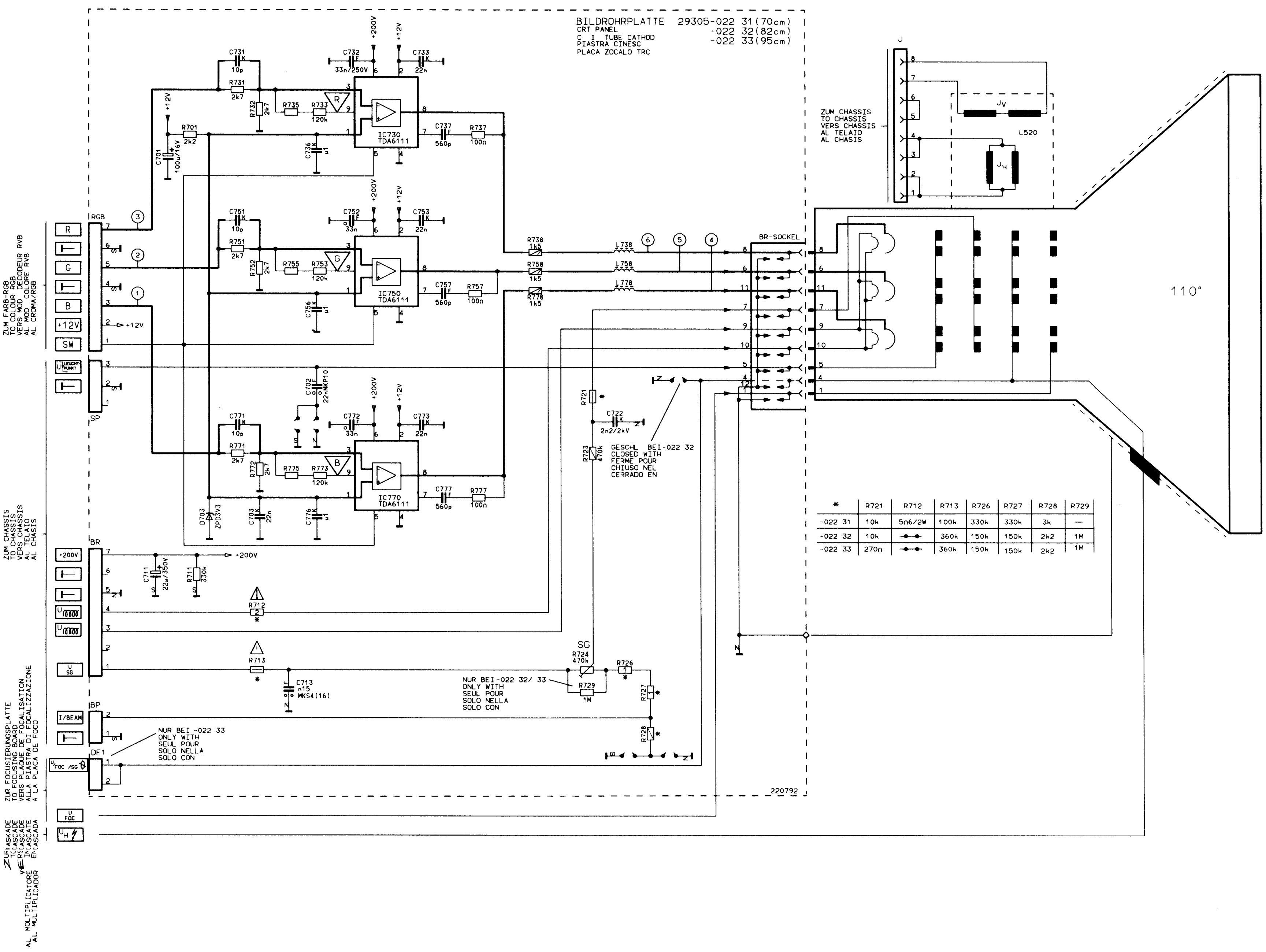
BP-PLATTE -070 62 (70cm)
CRT BASE -070 76 (82cm)
C.I TUBE CATHOD -070 77 (90cm)
PIASTRA CINESC
PLACA-ZOCALO TRC

ZUR FOCUSSIERUNGSPLATTE BEI 95cm LAVENDER
TO FOCUSING BOARD
VERS PLACA DE FOCALISATION
ALLA PIASTRA DI FOCALIZZIONE
A LA PLACA DE FOCO

29701-062 00
150992


BILDROHRPLATTE 29304-070 60 DIGI III
-070 62 DIGI IV
CRT BASE
C. I. TUBE CATHOD
PIASTRA CINESC
PLACA ZOCALO TRC
ZUM FARB-RGB
TO COLOUR RGB
VERS MOD. DECODEUR RVB
AL MOD. COLORE RVB
A CROMA/RGB
ZUM CHASSIS
TO CHASSIS
VERS CHASSIS
AL TELAIO
AL CHASIS
ZUR KASKADE
TO CASCADE
VERS CASCADE
AL MOLTIPLICATORE IN CASCATE
AL MULTIPLICADOR EN CASCADA
BR-SOCKEL
L520
110°
140992

*	R704	R703	D708	R711	L708
-070 60	6n8	4n7	ZPD4V7	270n	
-070 62	5n6	●—●	—	●—●	—


BILDROHRPLATTE 29305-022 31(70cm)
-022 32(82cm)
-022 33(95cm)
CRT PANEL
C. I. TUBE CATHOD
PIASTRA CINESC
PLACA ZOCALO TRC
ZUM FARB-RGB
TO COLOUR RGB
VERS MOD. DECODEUR RVB
AL MOD. COLORE RVB
AL CROMA/RGB
ZUM CHASSIS
TO CHASSIS
VERS CHASSIS
AL TELAIO
AL CHASIS
ZUR FOCUSIERUNGSPLATTE
TO FOCUSING BOARD
VERS PLAQUE DE FOCALISATION
ALLA PIASTRA DI FOCALIZZAZIONE
A LA PLACA DE FOCO
ZUR KASKADE
TO CASCADE
VERS CASCADE
AL MOLTIPLICATORE IN CASCATE
AL MULTIPLICADOR EN CASCADA
GESCHL. BEI-022 32
CLOSED WITH
FERME POUR
CHIUSO NEL
CERRADO EN
NUR BEI-022 32/33
ONLY WITH
SEUL POUR
SOLO NELLA
SOLO CON
NUR BEI -022 33
ONLY WITH
SEUL POUR
SOLO NELLA
SOLO CON
BR-SOCKEL
L520
110°
220792

*	R721	R712	R713	R726	R727	R728	R729
-022 31	10k	5n6/2W	100k	330k	330k	3k	—
-022 32	10k	●—●	360k	150k	150k	2k2	1M
-022 33	270n	●—●	360k	150k	150k	2k2	1M

BILDROHRPLATTE 29304-070 72 (82cm/87cm) DIGI III
CRT PANEL CATHOD -070 73 (95cm) DIGI III
PLAQUE TRIC -070 76 (82cm) DIGI IV

110°

ZUM CHASSIS
TO CHASSIS
VERS CHASSIS
AL CHASIS

J

L520

J-V

J-H

BR-SOCKEL

100992

**		C727	R704	D708	R711	L708	R721	R721 R731
-070 72	2n2/2kV	1n5/1W	ZPD4V7	270n		360k	220k	220k
-070 73	150p/2kV	(47/475	ZPD4V7	270n		220k		360k
-070 76	2n2/2kV							150k

* NUR BEI -070 72/ 76
ONLY WITH
SEULE POUR
SOLO CON

ECKA B-070 72/ 76
CLOSED WITH
FERME AVEC
CERRADO CON

CA 700-800V

SG

ZUR KASKADE
TO CASCADE
VERS CASCADE
AL MULTIPLICADOR EN CASCADA

ZUR FOCUSTEINHEIT
TO FOCUS UNIT
VERS PLAQUE DE FOCALISATION
A LA PLACA DE FOCO

ZUM FARB-RGB
TO COLOUR RGB
VERS RECEPTEUR RVB
AL MOD. COLORE RVB
A CROMA/RGB

ZUM CHASSIS
TO CHASSIS
VERS CHASSIS
AL CHASIS

BILDROHRPLATTE 29304-070 74 (95cm LAVENDER) DIGI III
CRT PANEL CATHOD -070 77 (95cm LAVENDER) DIGI IV
PLAQUE TRIC

110°

ZUM CHASSIS
TO CHASSIS
VERS CHASSIS
AL CHASIS

J

L520

J-V

J-H

BR-SOCKEL

100992

**		D708	R711	L708	R704	R721	R723 R733
-070 74	ZPD 4V7	—	270n		(47/0.75W	360k	150k
-070 77				—		220k	220k

CA 700-800V

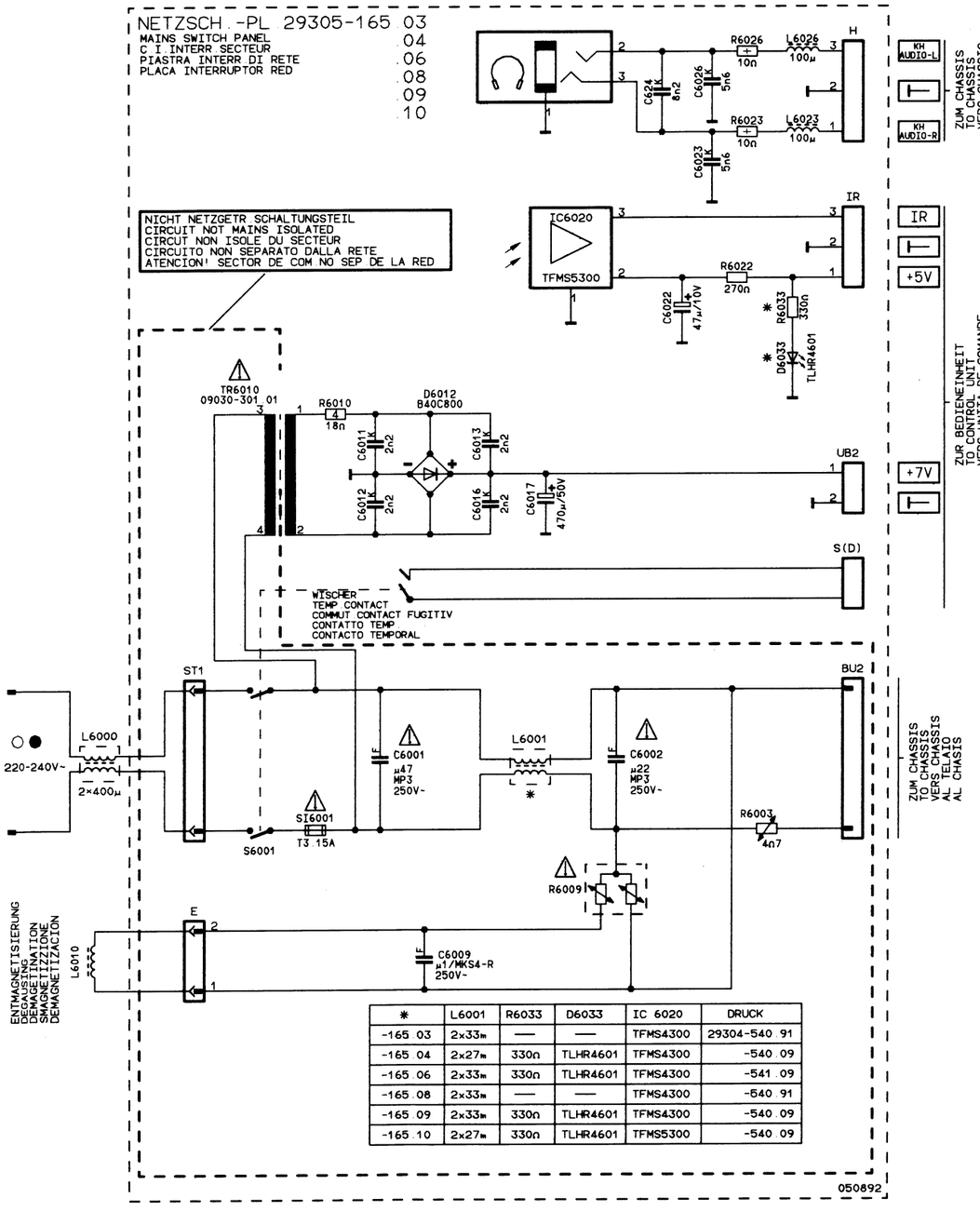
SG

ZUR KASKADE
TO CASCADE
VERS CASCADE
AL MULTIPLICADOR EN CASCADA

ZUR FOCUSTEINHEIT
TO FOCUS UNIT
VERS PLAQUE DE FOCALISATION
A LA PLACA DE FOCO

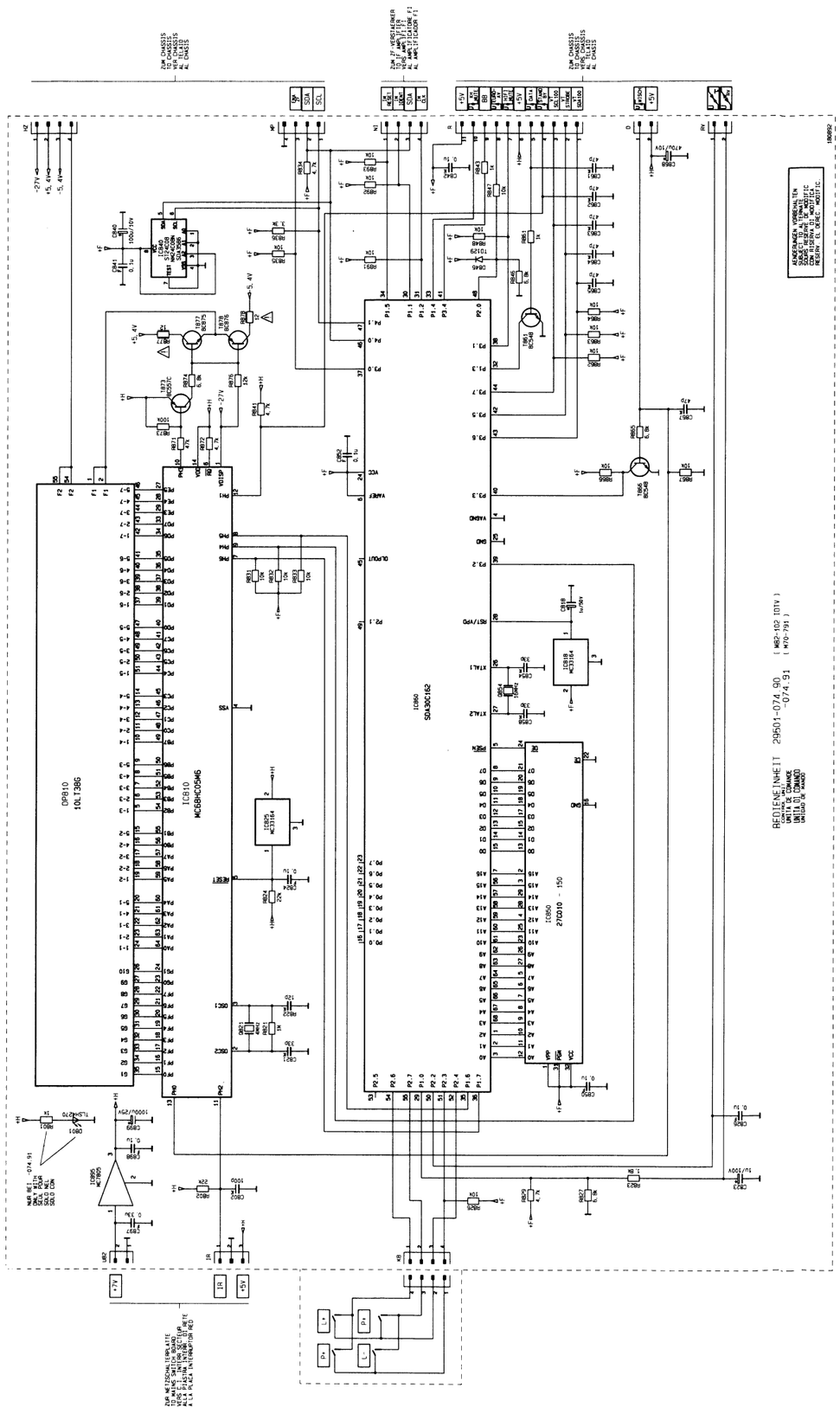
ZUM FARB-RGB
TO COLOUR RGB
VERS RECEPTEUR RVB
AL MOD. COLORE RVB
A CROMA/RGB

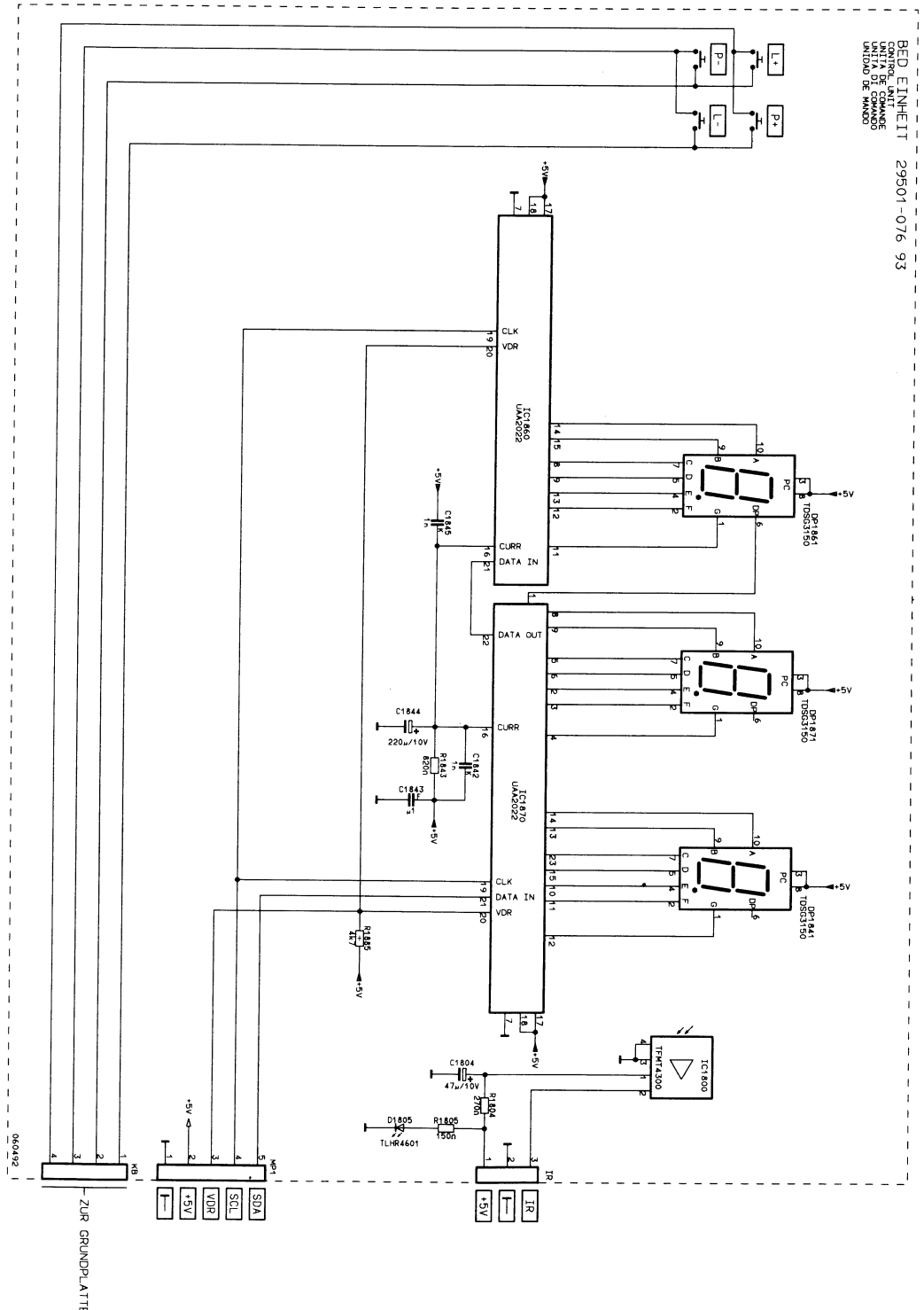
ZUM CHASSIS
TO CHASSIS
VERS CHASSIS
AL CHASIS

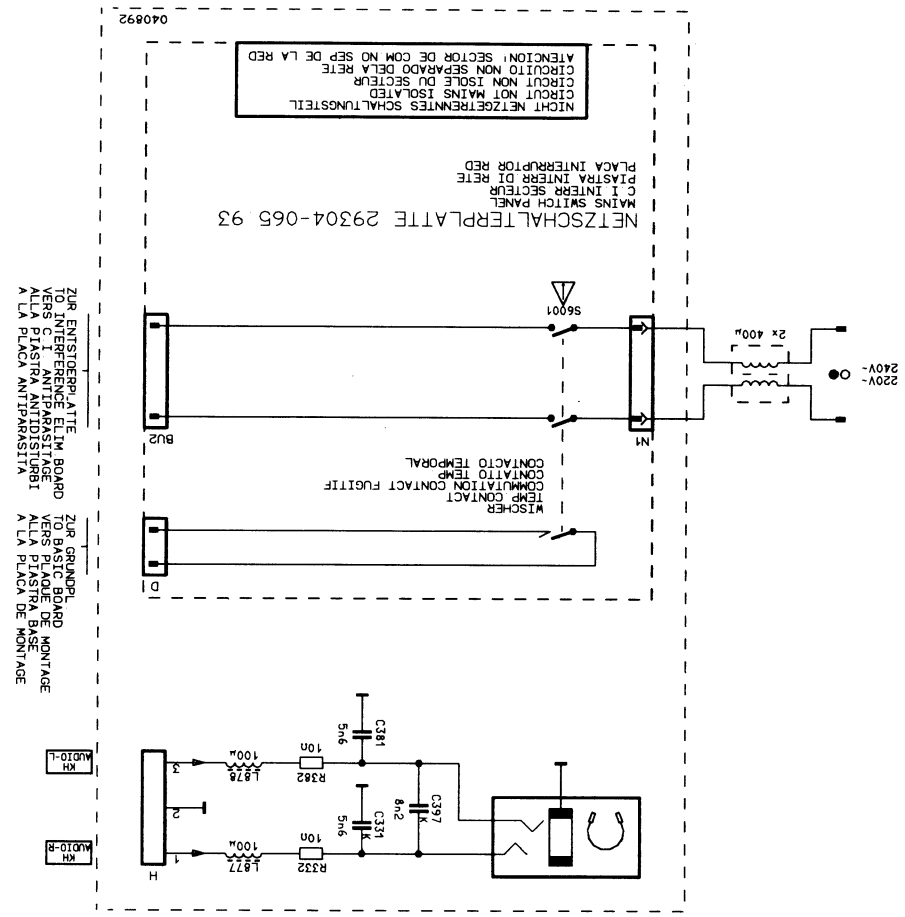


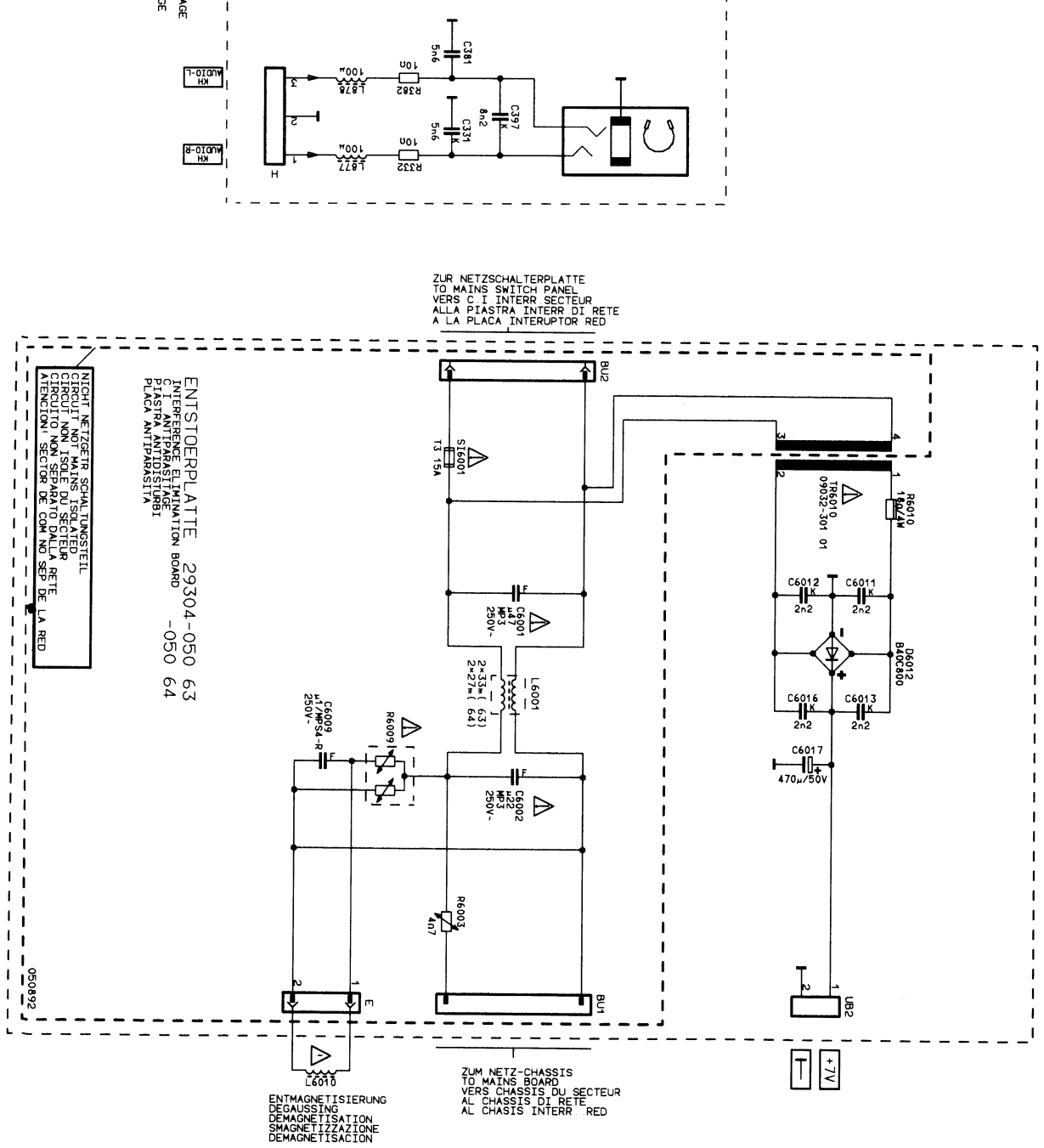
*	L6001	R6033	D6033	IC 6020	DRUCK
-165.03	2x33m	—	—	TFMS4300	29304-540.91
-165.04	2x27m	330Ω	TLHR4601	TFMS4300	-540.09
-165.06	2x33m	330Ω	TLHR4601	TFMS4300	-541.09
-165.08	2x33m	—	—	TFMS4300	-540.91
-165.09	2x33m	330Ω	TLHR4601	TFMS4300	-540.09
-165.10	2x27m	330Ω	TLHR4601	TFMS5300	-540.09

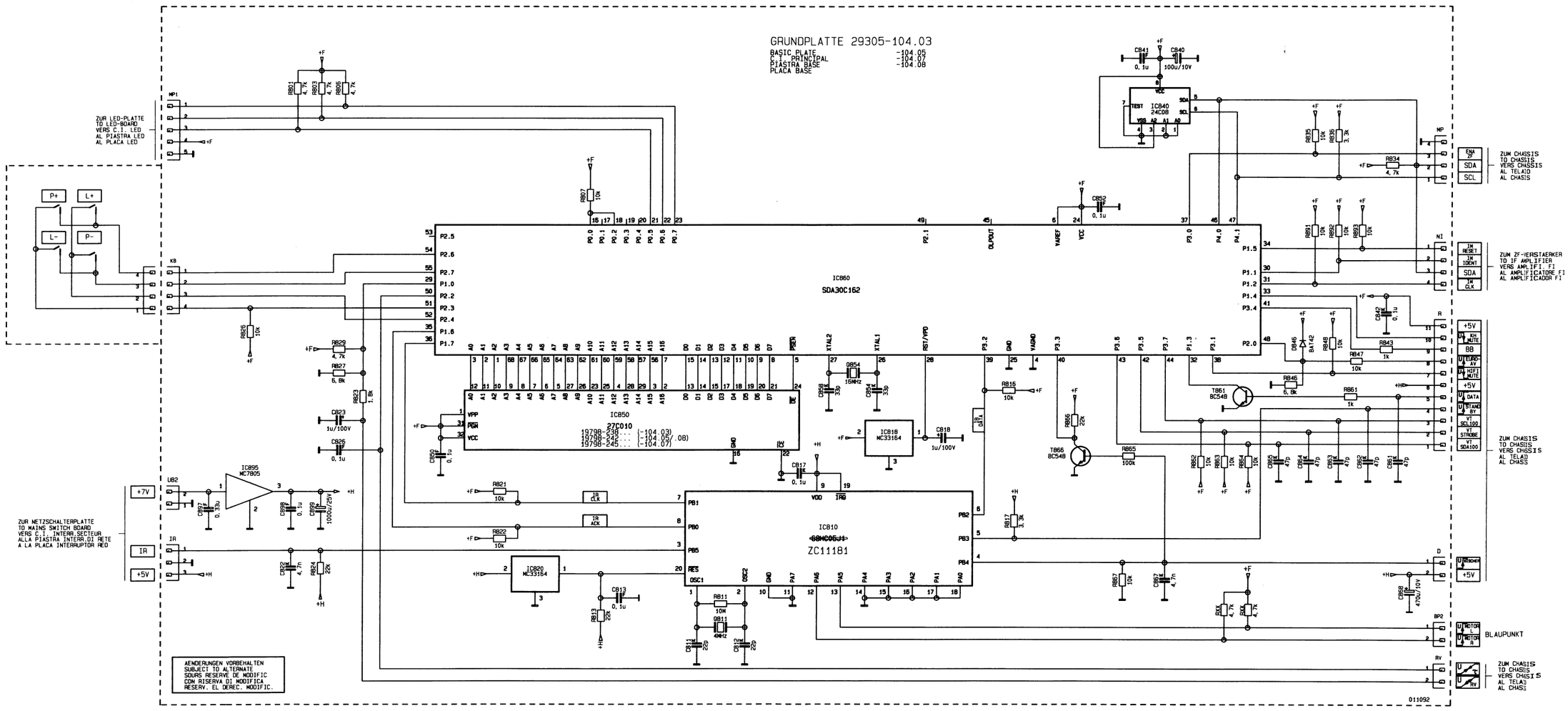
	CHASSIS	GERAETE
-165.03	DIG IV	M 70-791
-165.04	DIG IV	M 82/95-102
-165.06	CUC 7800	ST 82/95-775
-165.08	CUC 7800	M 70-790
-165.09	CUC 7800	FS 247 V6 (70 cm)
-165.10	DIG IV	FS 248 M6 (82 cm)




BED.EINHEIT 29501-076 93
UNITE DE COMMANDE
UNIDAD DE MANDO
ZUR GRUNDPLATTE
TO MAIN BOARD
VERS PLAQUE DE MONTAGE
ALLA PIASTRA BASE
A LA PLACA DE MONTAGE
IC1870 UAA2022
IC1800 TPM14300
DP1841 DP1871 TDSG3150
+5V
CLK
VDR
DATA IN
DATA OUT
CURR
SDA
SCL
IR
T
C1844 220µ/10V
C1842 100n
C1843 1µ
C1804 47µ/10V
R1804 270R
R1805 150R
D1805 TLHR4601
R1845 4µ7
C1845 1µ
0404A2


0408B2
NICHT NETZGETRENNTES SCHALTUNGSTEIL
CIRCUIT NON MAINS ISOLATED
CIRCUIT NON ISOLE DU SECTEUR
CIRCUITO NON SEPARATO DALLA RETE
ATENCION! SECTOR DE COM NO SEP DE LA RED
NETZSCHALTERPLATTE 29304-065 93
MAINS SWITCH PANEL
PLASTRA INTERR DI RETE
C I INTERR SECTEUR
PLACA INTERRUPTOR RED
S6001
BU2
N1
2x 400µ
220V-
240V-
WISCHER
TEMP CONTACT
COMMUTATION CONTACT FUGITIF
CONTACTO TEMP
CONTACTO TEMPORAL
ZUR ENTSTOERPLATTE
TO INTERFERENCE SUPPRESSION BOARD
VERS C I ANTIPARASITAGE
ALLA PIASTRA ANTIDISTURBI
A LA PLACA ANTIPARASITA
ZUR GRUNDPL
TO MAIN BOARD
VERS PLAQUE DE MONTAGE
ALLA PIASTRA BASE
A LA PLACA DE MONTAGE
AUDIO-L
AUDIO-R
C381 5n6
C397 8n2
C331 5n6
R382 10n
R332 10n
L878 100µ
L877 100µ


ZUR NETZSCHALTERPLATTE
TO MAINS SWITCH PANEL
VERS C I INTERR SECTEUR
ALLA PIASTRA INTERR DI RETE
A LA PLACA INTERUPTOR RED
ENTSTOERPLATTE 29304-050 63
INTERFERENCE SUPPRESSION BOARD
PIASTRA ANTIDISTURBI
PLACA ANTIPARASITA
-050 64
NICHT NETZGETR SCHALTUNGSTEIL
CIRCUIT NON MAINS ISOLATED
CIRCUIT NON ISOLE DU SECTEUR
CIRCUITO NON SEPARATO DALLA RETE
ATENCION! SECTOR DE COM NO SEP DE LA RED
050892
BU2
BU1
S6001
T3 15A
R6010 150R/1W
R6011 0R82/2W
C6012 2n2
C6011 2n2
C6016 2n2
C6013 2n2
D6012 B40C800
C6001 MKP2 250V~
C6002 MKP2 250V~
L6001 2x35µH (63) 2x27µH (64)
C6009 47/MKP4-R 250V~
R6009 4R7
R6003 4R7
C6017 470µ/50V
L6010
VR2
VR1
+7V
ENTMAGNETISIERUNG
DEGAUSSING
DEMAGNETISATION
SMAGNETIZZAZIONE
DESMAGNETISACION
ZUM NETZ-CHASSIS
TO MAINS BOARD
VERS CHASSIS DU SECTEUR
AL CHASSIS DI RETE
AL CHASIS INTERR RED


GRUNDPLATTE 29305-104.03
BASIC PLATE -104.05
C.I. PRINCIPAL -104.07
PIASTRA BASE -104.08
PLACA BASE
ZUR LED-PLATTE
TO LED-BOARD
VERS C.I. LED
AL PIASTRA LED
AL PLACA LED
ZUR NETZSCHALTERPLATTE
TO MAINS SWITCH BOARD
VERS C.I. INTERR. SECTEUR
ALLA PIASTRA INTERR. DI RETE
A LA PLACA INTERRUPTOR RED
ICB60
SDA30C162
IC850
27C010
19798-238... (-104.03)
19798-242... (-104.05/.08)
19798-245... (-104.07)
IC810
68HC05J1
ZC11181
IC895
MC7805
IC820
MC33164
IC818
MC33164
IC840
24C08
ZUM CHASSIS
TO CHASSIS
VERS CHASSIS
AL TELAIO
AL CHASIS
ZUM ZF-VERSTAERKER
TO IF AMPLIFIER
VERS AMPLIFI. FI
AL AMPLIFICATORE FI
AL AMPLIFICADOR FI
BLAUPUNKT
AENDERUNGEN VORBEHALTEN
SUBJECT TO ALTERNATE
SOURS RESERVE DE MODIFIC
CON RISERVA DI MODIFICA
RESERV. EL DEREC. MODIFIC.
011092

TUNER 29504-101 21
-101 22
-101 23
-101 24
131 23 (ARGENTINIEN)

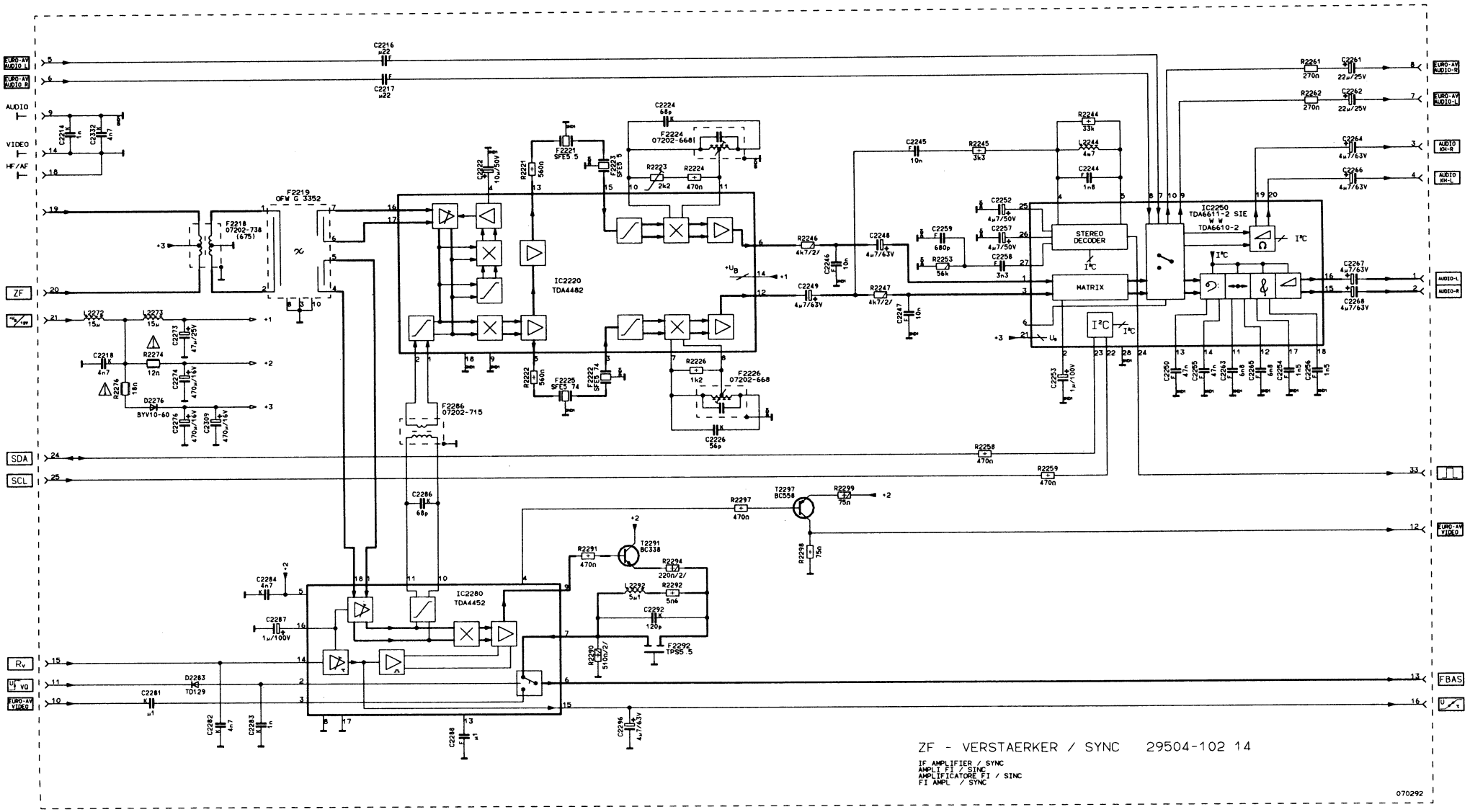
NUR BEI -101 24
ONLY WITH
SEUL POUR
SOLO MELLA
SOLO CON

CIC2160
TDA5331T

IC9010
SDA3302
M6204B

*	CC2091	CC2165	CC2183	CC2187	L2085	L2095	L2176	L2077	CR9025	CC2067 CC2068	L2067	L2102	CC2104	CT2108 CT2147	L2111	CC2110	CR2108	CR2113 CR2147
-101 21	1p	2p7	68p	56p	09241 -043	09246 -261	09241 -056	09241 -045	—	47p	09241 -003	09241 -009	p47	BF998	09241 -028 01	—	18k	330n
-101 22/ 24	1p	2p7	68p	56p	09241 -043	09246 -261	09241 -056	09241 -045	0n	47p	09241 -003	09241 -009	p47	BF998	09241 -028 01	—	18k	330n
-101 23	1p	2p7	68p	56p	09241 -043	09246 -261	09241 -011	09246 -601	0n	1n	—	09241 -020	—	BF930	09241 -108 01	1n	1k	240n
-131 23	p82	p47	56p	47p	09241 -045	09241 -067	09241 -041	09246 -601	—	47p	09241 -003	09241 -009	p82	BF998	09241 -028 01	—	1k	330n

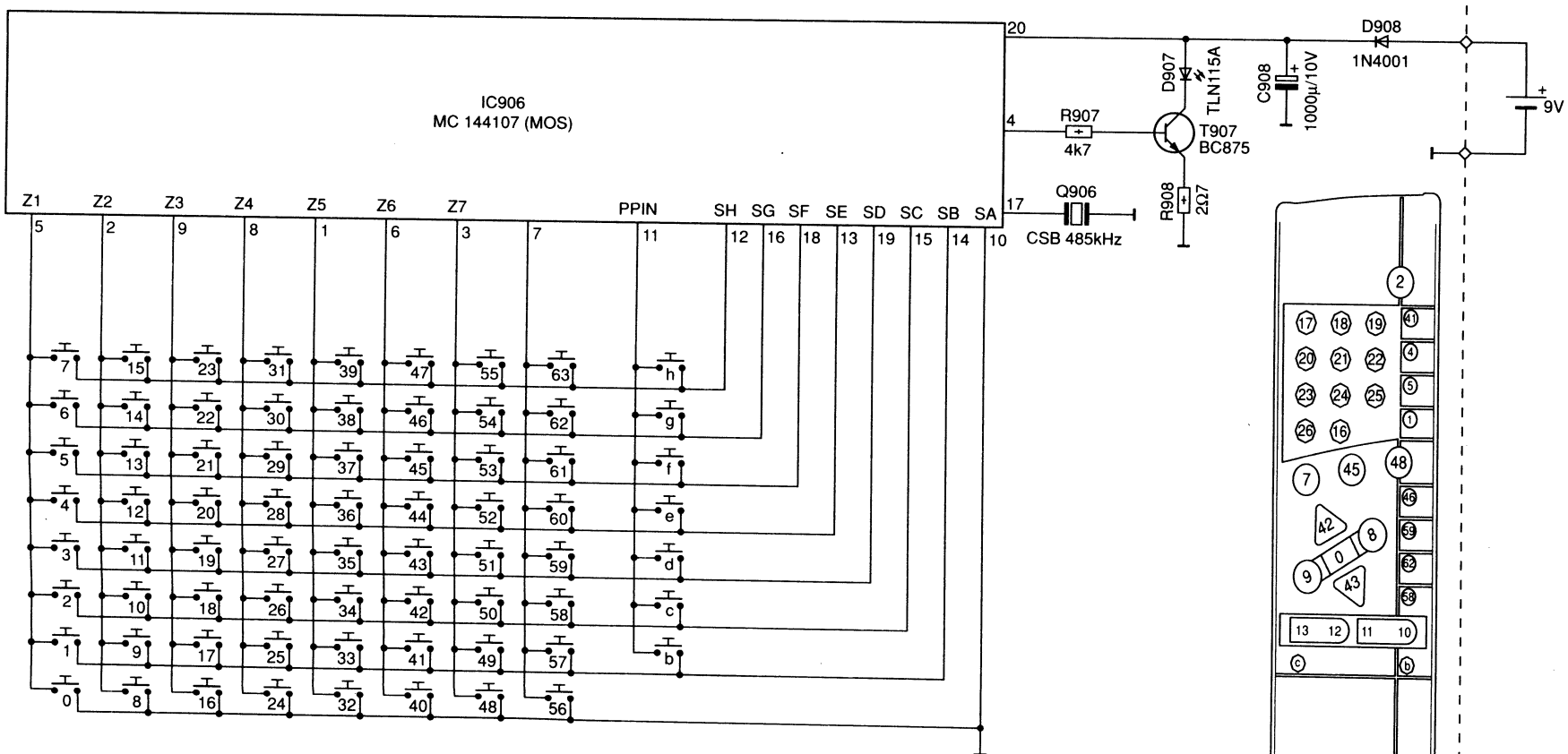
280992



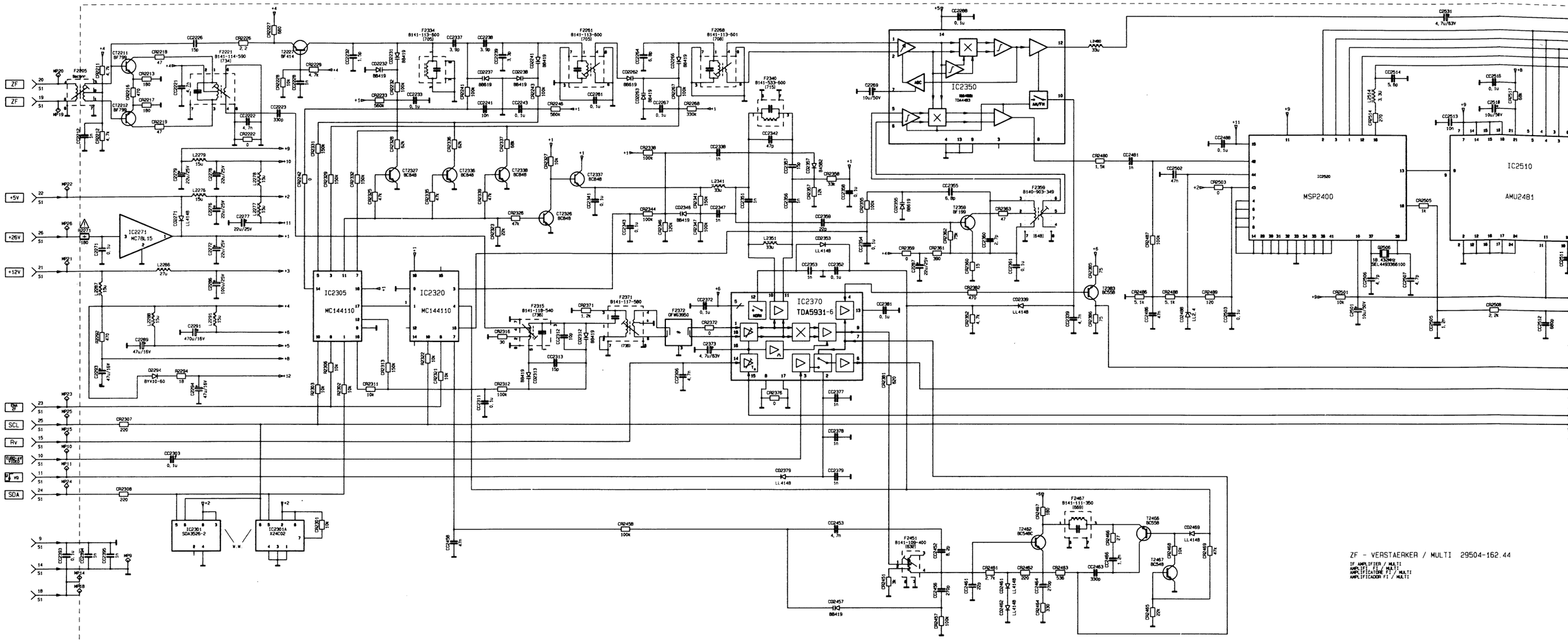
ZF - VERSTAERKER / SYNC 29504-102 14

IF AMPLIFIER / SYNC
AMPLI FI / SYNC
AMPLIFICATORE FI / SINC
FI AMPL / SYNC

FERNBEDIENUNG 29622 - 059.01
REMOTE CONTROL
TELE COMMANDE
TELECOMANDO
TELEMANDO



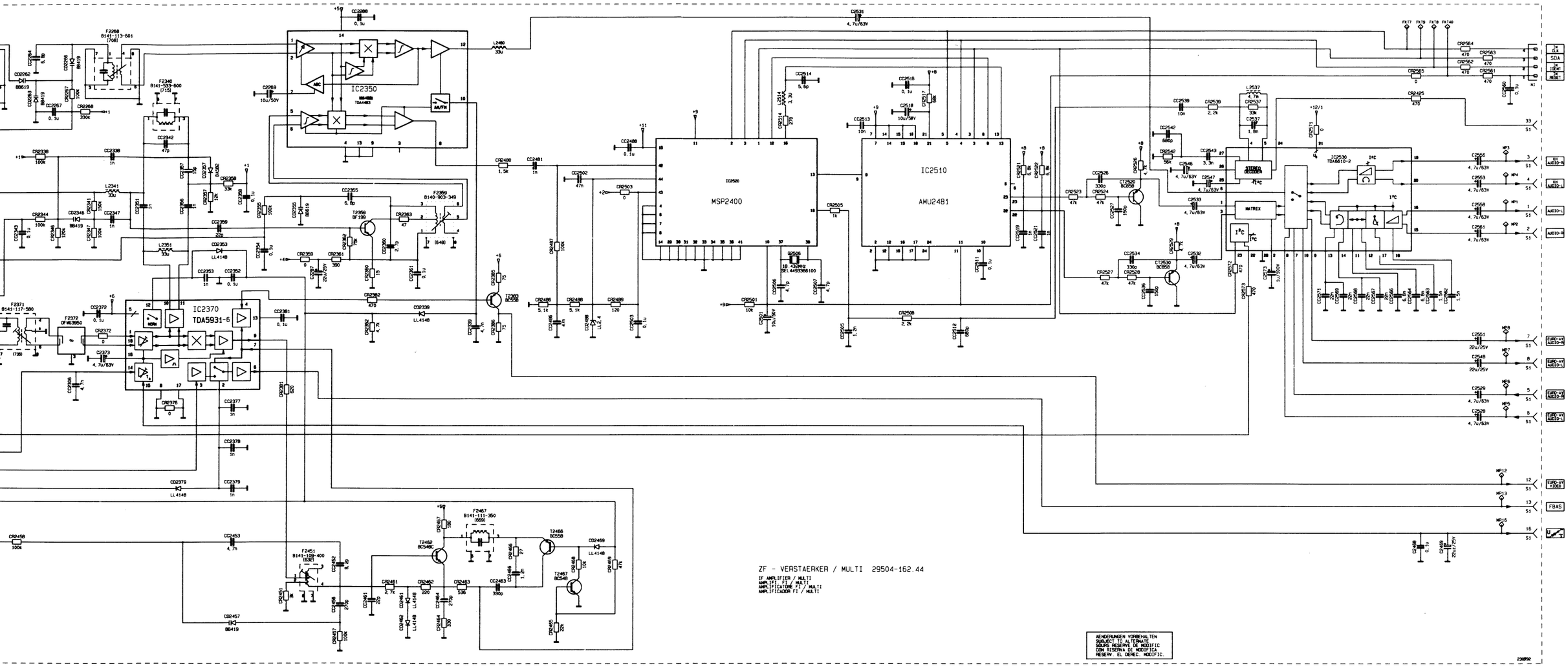
KEYBOARD 29304-779.01
KEYBOARD
CLAVIER
KEYBOARD
TECLADO



Modulübersicht / Module list / Sommario delle moduli

CUC 1821 / 1851 / 1881 / 1891

Gerät Set Apparecchio Appareil Aparato	**Bildrohrplatte** CRT Base C. I. Tube Cathod. Piastra Cinesc. Placa Zocalo TRC	**Bedieneinheit** Control Unit Unita de comm. Unita di comando Unidad de Mando	**Netzschalterplatte** Mains switch B. C. I. Int. Secteur Piastra Int. di Rete Placa interr. Red	**Entstörplatte** Interference elimination b. C. I. antiparasitage Piastra antidisturbi Placa antiparasita	**Tuner** Tuner Tuner Tuner Tuner	**ZF-Verstärker** IF amplifier Amplificateur de FI Amplificatore FI Amplificador de FI	**Buchsenplatte** Euro-AV S. Board C. I. Prises Peri-TV P. Pr. Euro-AV Pl. con. Euro-AV	**Videotext** Teletext Teletexte Televideo Teletexto	**Video Bst.** Video Module Module Video. Modul del Video Modulo de Video	**Feature Box** Feature Box Feature Box Feature Box Feature Box	**NF Endstufe** AF output stag Prise B.F. Stadio finale B Paso final FB
M 70 - 781 IDTV	29304-070.62 29305-022.31	29501-076.93 + 29501-104.03	29304-065.93	29304-050.63	29504-101.22	29504-102.14	29304-060.93	29504-108.80	29504-105.71	29504-103.07/.09 29504-103.08/.10	29504-104.20
M 70 - 791 IDTV	29304-070.62 29305-022.31	29501-074.90	29305-165.03	-	29504-101.22	29504-162.44	29304-060.93	29504-108.80	29504-105.71	29504-103.07/.09 29504-103.08/.10	29504-104.54
M 82 - 102 IDTV	29304-070.76	29501-074.90	29305-165.04	-	29504-101.22	29504-162.44	29304-060.93	29504-108.80	29504-105.71	29504-103.07/.09 29504-103.08/.10	29504-104.54
M 95 - 102 IDTV	29304-070.77	29501-074.91	29305-165.04	-	29504-101.22	29504-162.44	29304-060.93	29504-108.80	29504-105.71	29504-103.07/.09 29504-103.08/.10	29504-104.54



ario delle moduli

	Netzschalterplatte Mains switch B. C. I. Int. Secteur Piastra Int. di Rete Placa interr. Red	**Entstörplatte** Interference elimination b. C. I. antiparasitage Piastra antidisturbi Placa antiparasita	**Tuner** Tuner Tuner Tuner Tuner	**ZF-Verstärker** IF amplifier Amplificateur de FI Amplificatore FI Amplificador de FI	**Buchsenplatte** Euro-AV S. Board C. I. Prises Peri-TV P. Pr. Euro-AV PI. con. Euro-AV	**Videotext** Teletext Teletexte Televideo Teletexto	**Video Bst.** Video Module Module Video. Modul del Video Modulo de Video	**Feature Box** Feature Box Feature Box Feature Box Feature Box	**NF Endstufe** AF output stage Prise B.F. Stadio finale BF Paso final FB	**Fernbedienung** Remote control Tele commande Telecommando Tele mando	**Netz - Chassis** Mains chassis Chassis de secteur Chassis di rete Chasis interr. red	**Color - Chassis** Colour chassis Chassis coleur Chassis colore Chasis color
	29304-065.93	29304-050.63	29504-101.22	29504-102.14	29304-060.93	29504-108.80	29504-105.71	29504-103.07/.09 29504-103.08/.10	29504-104.20	29622-059.01	29305-079.01	29701-078.01
	29305-165.03	-	29504-101.22	29504-162.44	29304-060.93	29504-108.80	29504-105.71	29504-103.07/.09 29504-103.08/.10	29504-104.54	29622-059.01	29305-079.02	29701-078.02
	29305-165.04	-	29504-101.22	29504-162.44	29304-060.93	29504-108.80	29504-105.71	29504-103.07/.09 29504-103.08/.10	29504-104.54	29622-059.01	29305-079.03	29701-078.03
	29305-165.04	-	29504-101.22	29504-162.44	29304-060.93	29504-108.80	29504-105.71	29504-103.07/.09 29504-103.08/.10	29504-104.54	29622-059.01	29305-079.04	29701-078.04

VIDEOTEXT - DECODER 29504-108 72
-108 80

IC2840
SAA4700
VPS-DECODER

IC2850
SDA 9231 (MOS)

IC2860
SDA 9243 (MOS)
CHARACTER GENERATOR
TIMING CHAIN
DATA ACQUIS
I² C
MEMORY INTERFACE

IC2893
32k × 8 STATIC
SPEICHER RAM

IC2880
CF 72304
MEMORY MAP

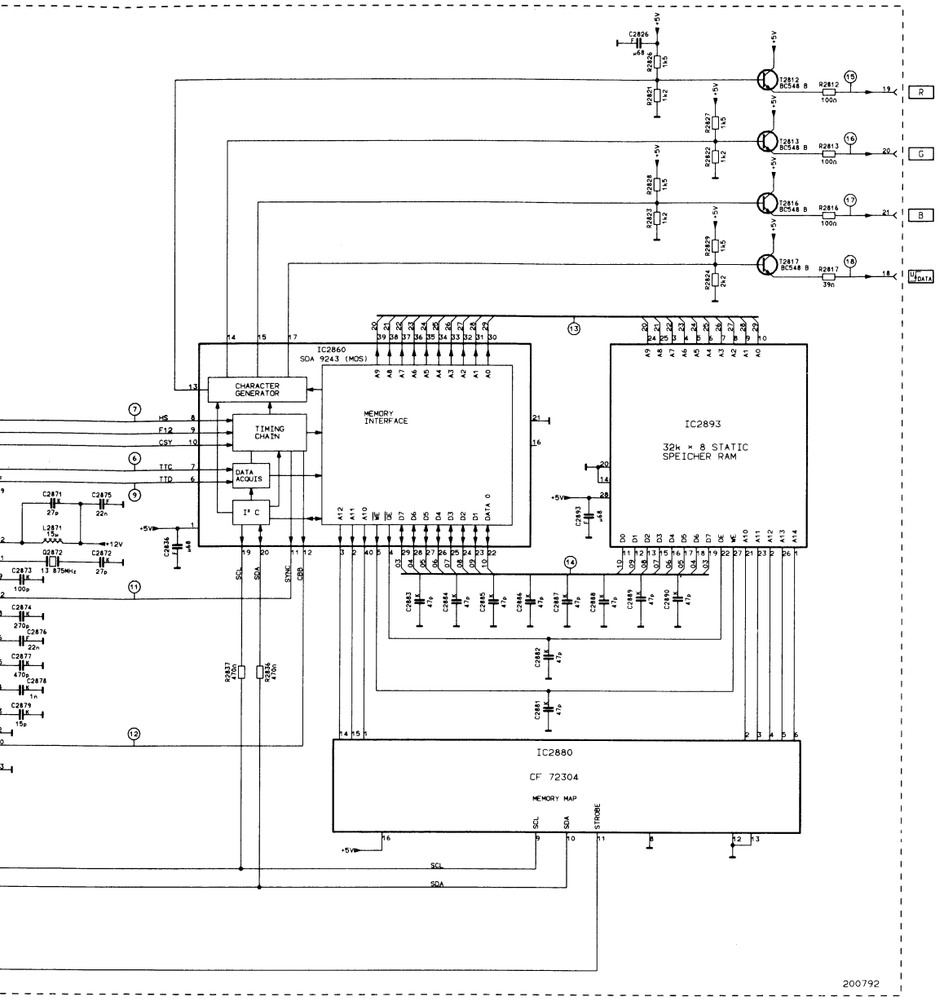
NUR BEI -108 80
ONLY WITH
SEUL POUR
SOLO HELLA
SOLO CON

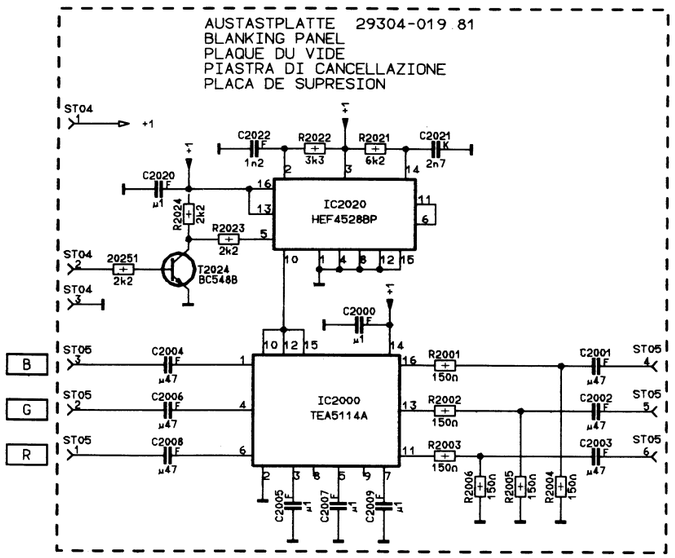
200792

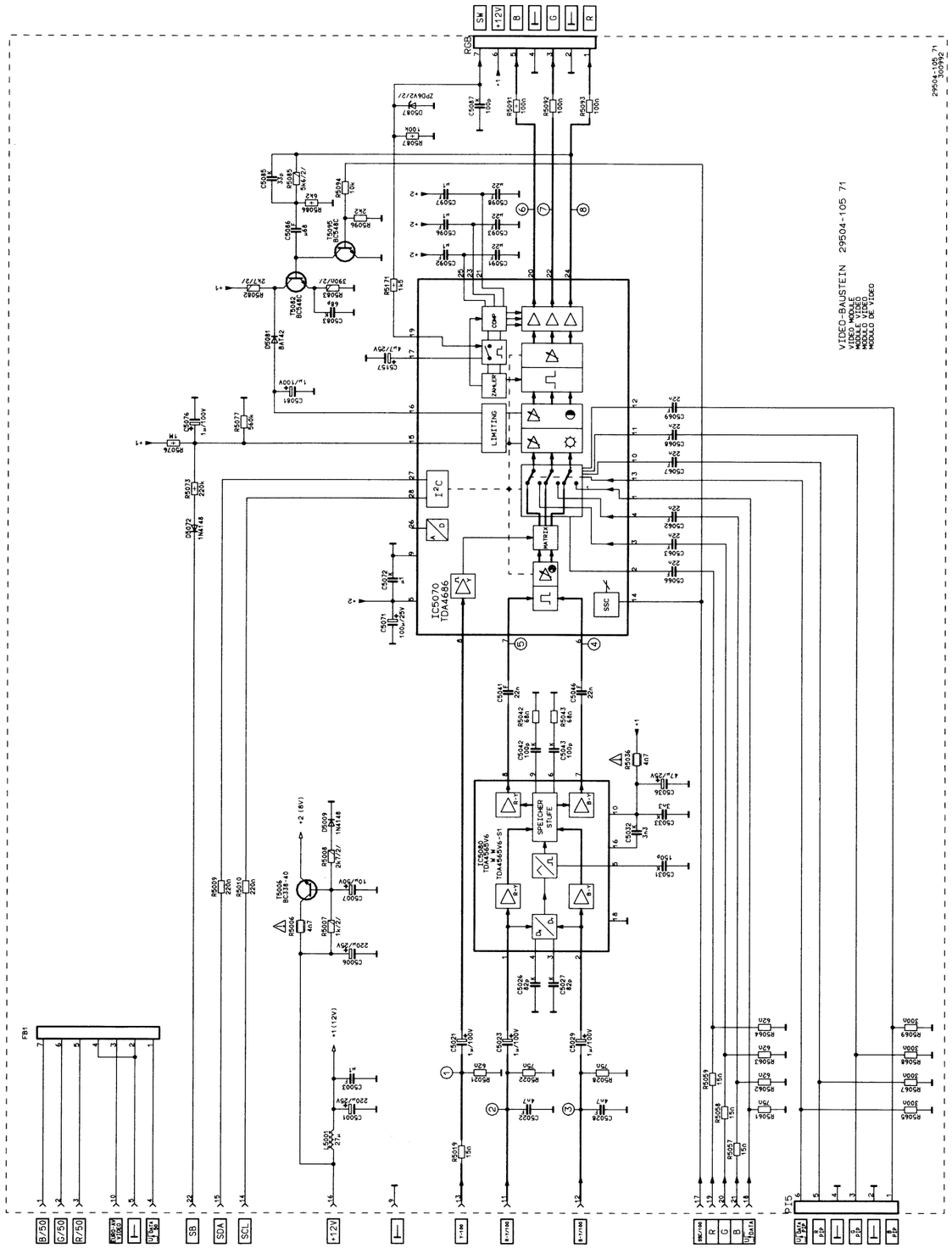
AUSTASTPLATTE 29304-019 81
BLANKING PANEL
PLAQUE DU VIDE
PIASTRA DI CANCELLAZIONE
PLACA DE SUPRESION

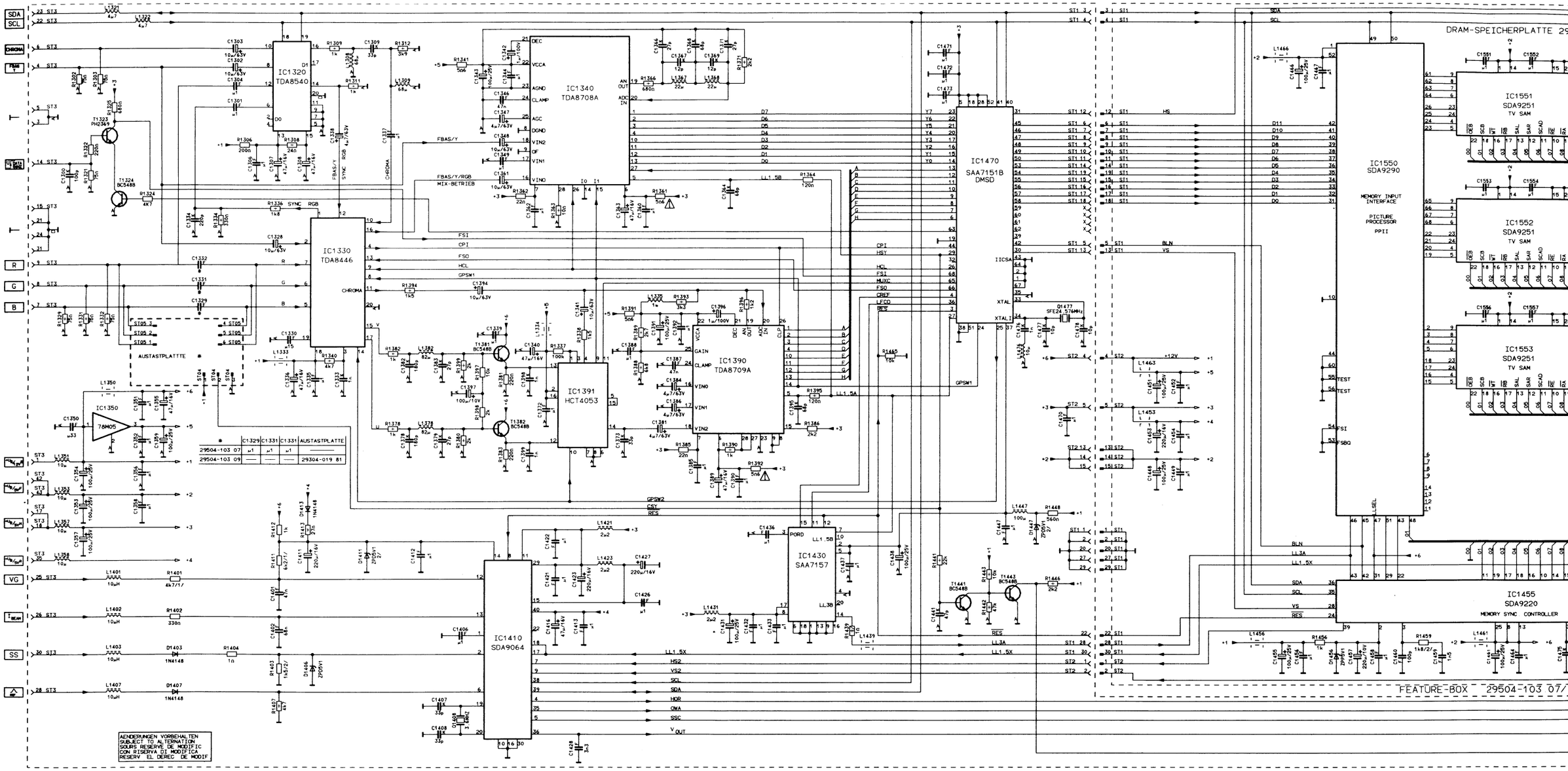
IC2020
HEF45288P

IC2000
TEA5114A


IC2860
SDA 9243 (MOS)
CHARACTER GENERATOR
TIMING CHAIN
DATA ACQUIS
I² C
MEMORY INTERFACE
IC2893
32k x 8 STATIC
SPEICHER RAM
IC2880
CF 72304
MEMORY MAP
SCL
SDA
STROBE
SYNC
CBB
HS
F12
CSY
TTC
TTD
+5V
+12V
T2812 BC548 B
T2813 BC548 B
T2816 BC548 B
T2817 BC548 B
R
G
B
U DATA
200792


AUSTASTPLATTE 29304-019 81
BLANKING PANEL
PLAQUE DU VIDE
PIASTRA DI CANCELLAZIONE
PLACA DE SUPRESION
ST04
IC2020
HEF4528BP
T2024
BC548B
IC2000
TEA5114A
B
G
R
ST05


RGB
SW
+12V
B
G
R
VIDEO-BAUSTEIN 29504-105 71
VIDEO MODULE
MODULE VIDEO
MODULO VIDEO
MODULO DE VIDEO
29504-105 71
300992
IC5070
TDA4686
I²C
LIMITING
SPEICHER STUFE
IC5080
TDA4566
TDA4565/6-S1
SSC
FB1
B/50
G/50
R/50
SB
SDA
SCL
+12V
P15



*	C1329	C1331	C1331	AUSTASTPLATTE
29504-103 07	µ1	µ1	µ1	
29504-103 09	—	—	—	29304-019 81

DRAM-SPEICHERPLATTE 29305-013 21
-013 22

Y/C-DECODERPLATTE 29305-014 21
-014 22
-014 25

IC1340
TDA8708A

IC1390
TDA8709A

IC1391
HCT4053

IC1470
SAA7151B
DMSD

IC1430
SAA7157

IC1550
SDA9290
MEMORY INPUT INTERFACE
PICTURE PROCESSOR
PPII

IC1551
SDA9251
TV SAM

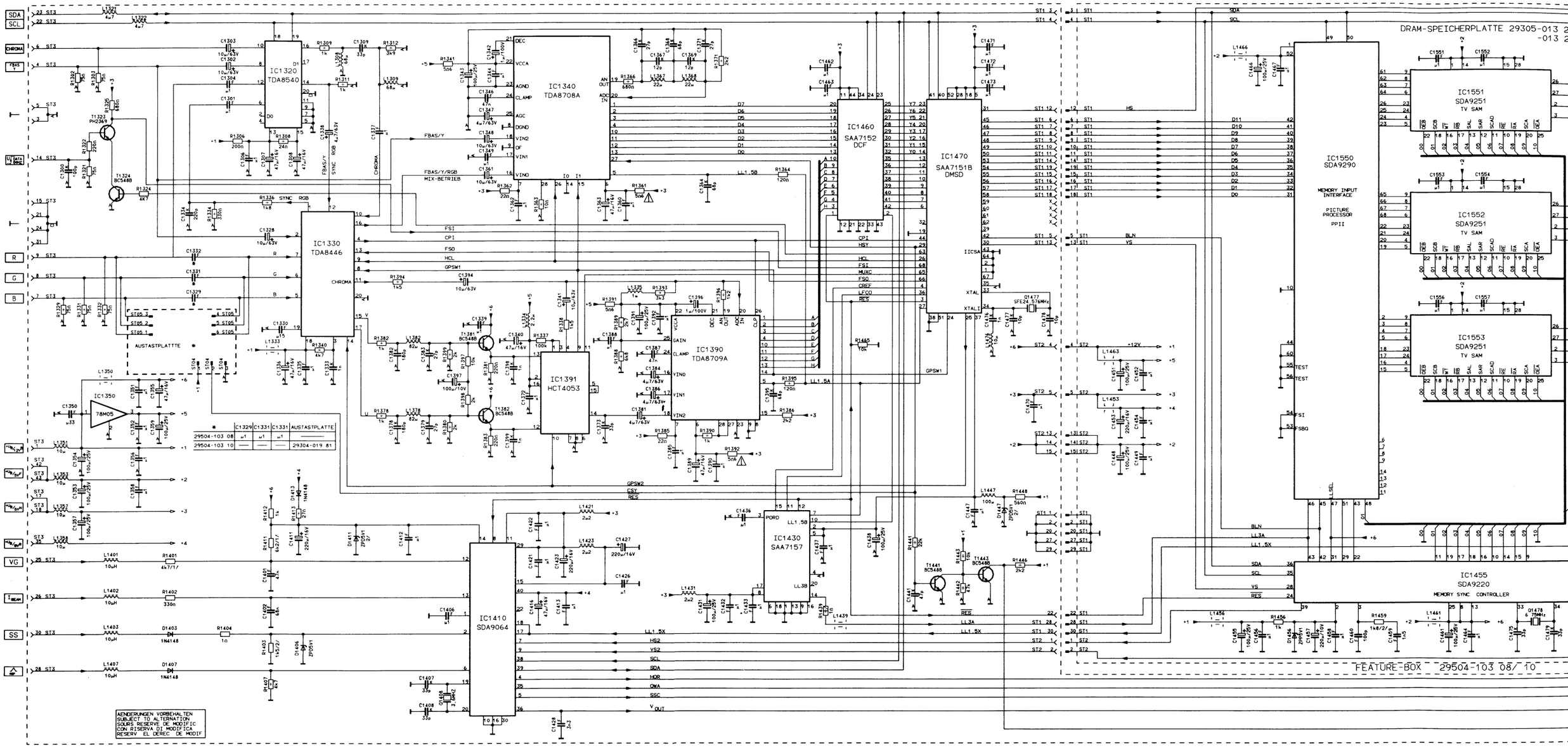
IC1552
SDA9251
TV SAM

IC1553
SDA9251
TV SAM

IC1560
SDA9094
MEMORY OUTPUT INTERFACE
D/A-CONVERTER

IC1455
SDA9220
MEMORY SYNC CONTROLLER

FEATURE-BOX 29504-103 07/09



*	C1329	C1331	C1335	AUSTASTPLATTE
29504-103 08	µ1	µ1	µ1	——
29504-103 10	——	——	——	29304-019 81

DRAM-SPEICHERPLATTE 29305-013 21
-013 22

Y/C-DECODERPLATTE 29305-014 24
-014 26

IC1390 TDA8709A

IC1430 SAA7157

IC1460 SAA7152 DCF

IC1470 SAA7151B DMSD

IC1550 SDA9290
MEMORY INPUT INTERFACE
PICTURE PROCESSOR PPII

IC1551 SDA9251 TV SAM

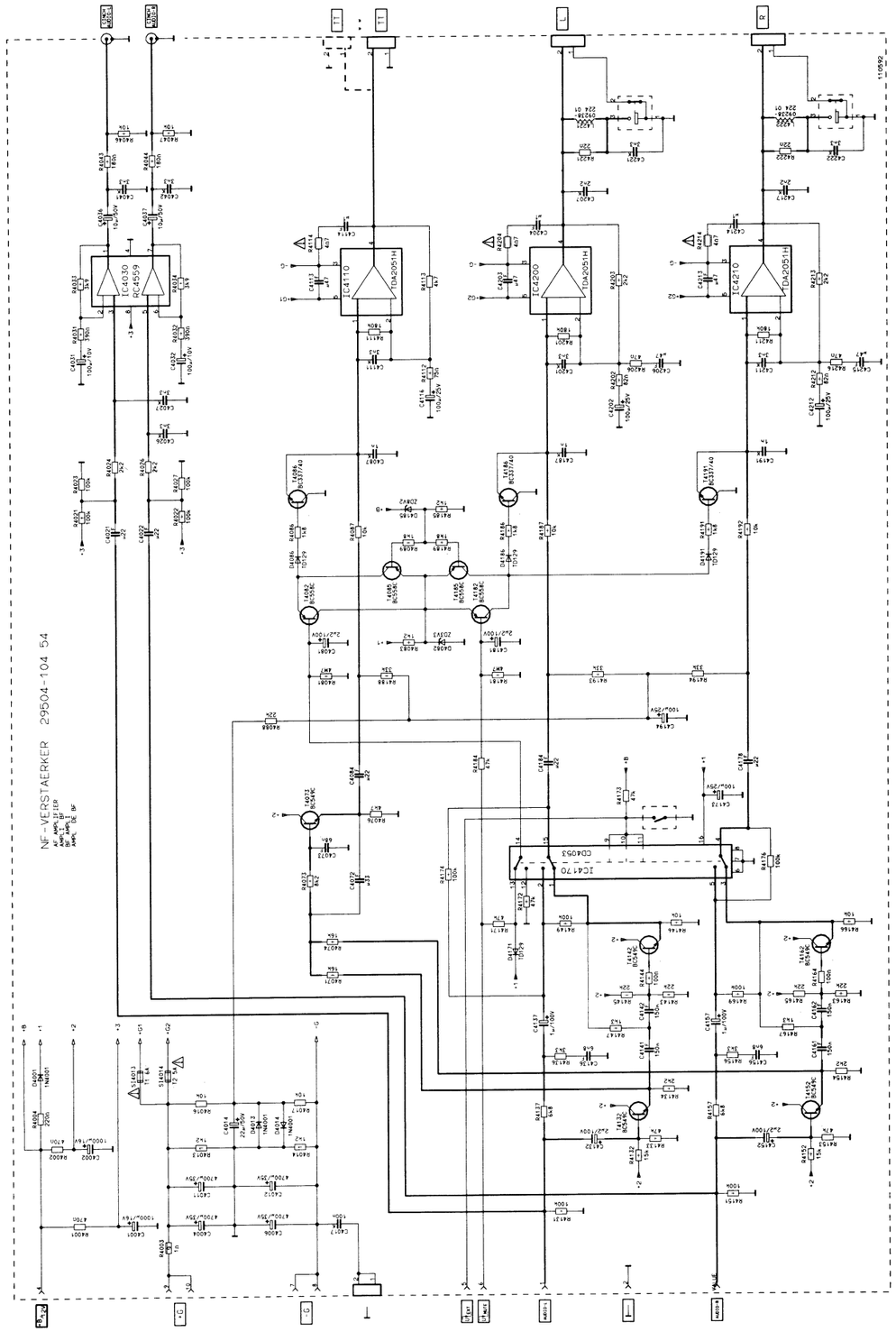
IC1552 SDA9251 TV SAM

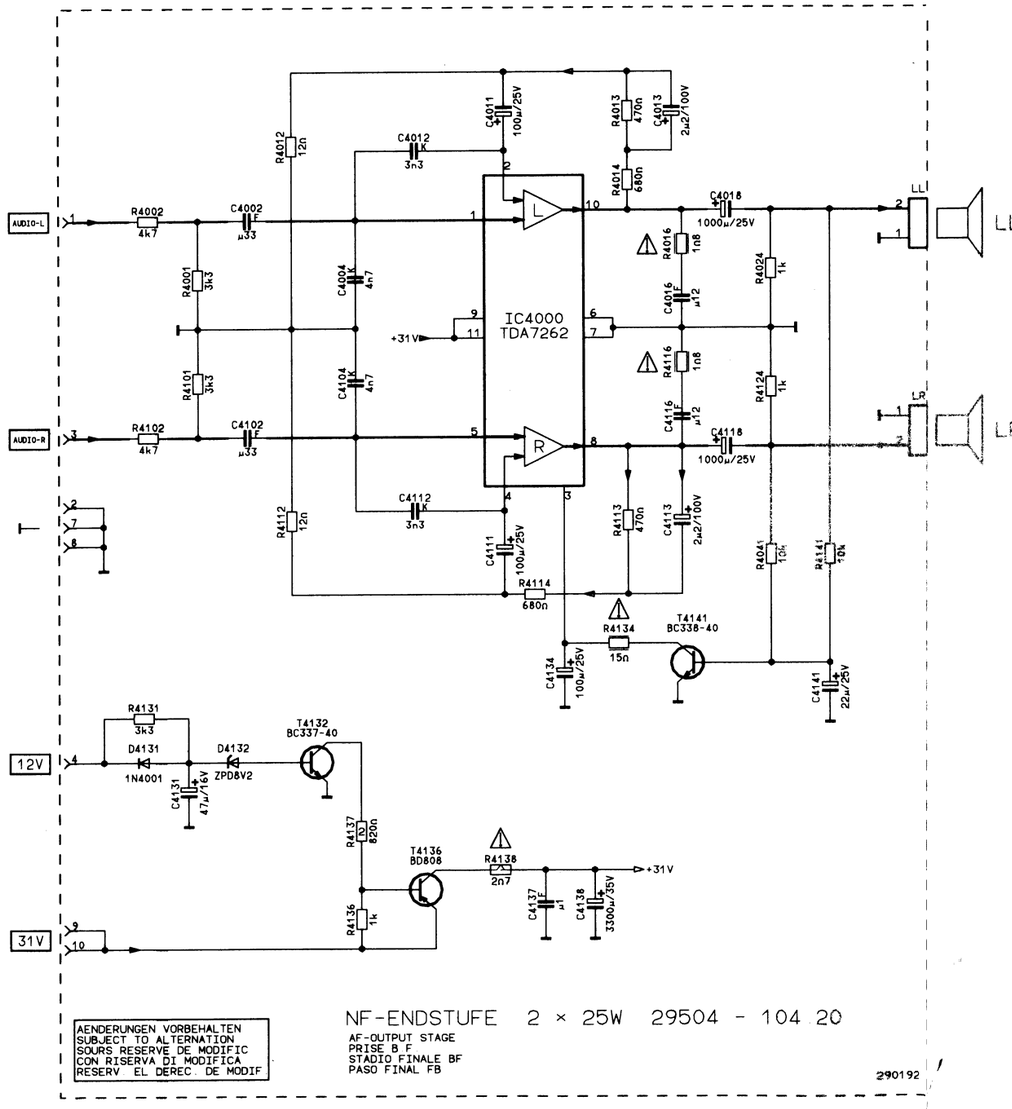
IC1553 SDA9251 TV SAM

IC1455 SDA9220
MEMORY SYNC CONTROLLER

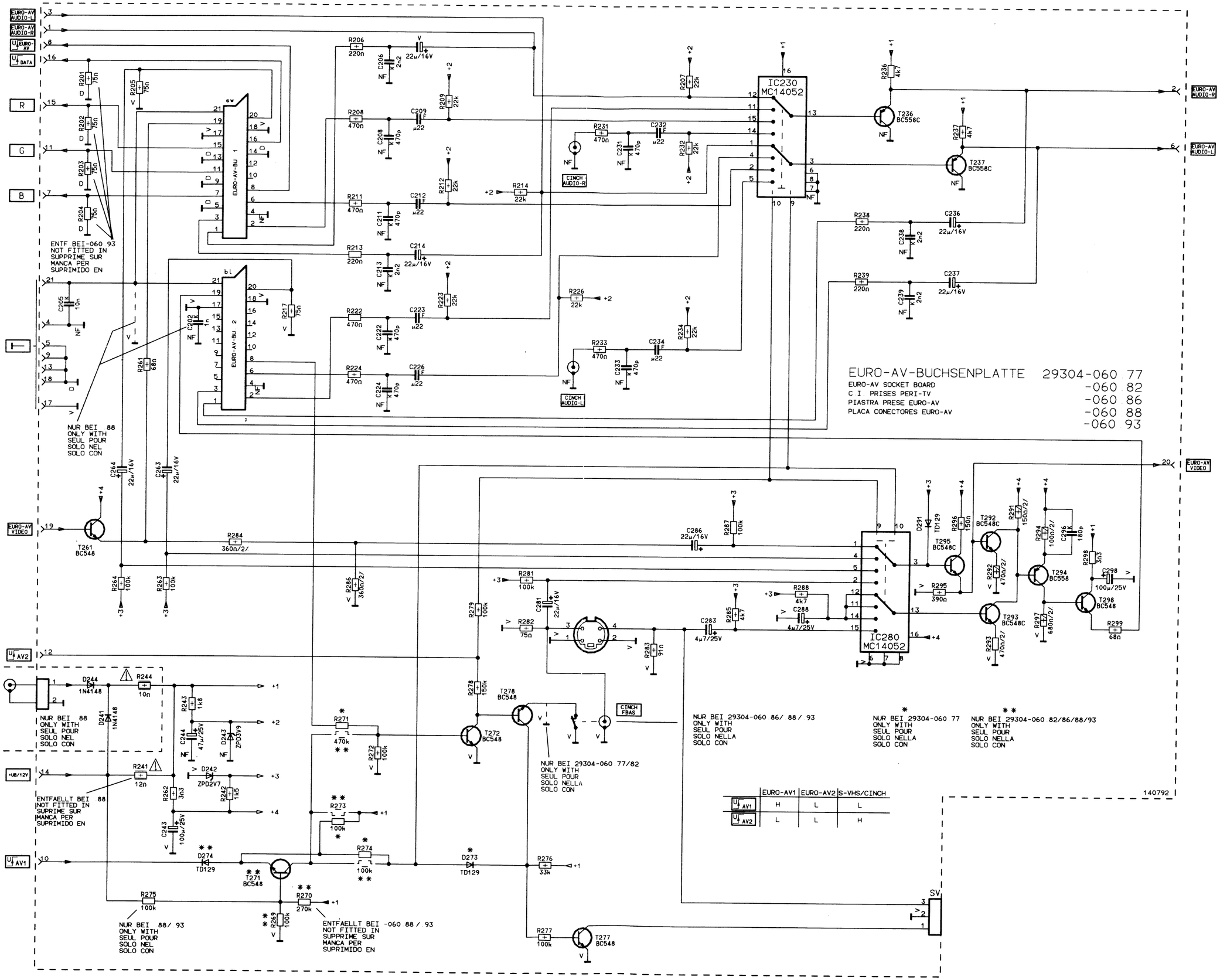
IC1560 SDA9094
MEMORY OUTPUT INTERFACE
D/A-CONVERTER

FEATURE-BOX 29504-103 08/10


NF-VERSTAERKER 29504-104 54
IC4030 RC4559
IC4110 TDA2051H
IC4200 TDA2051H
IC4210 TDA2051H
IC4170 CD4053


AUDIO-L
AUDIO-R
IC4000 TDA7262
+31V
12V
31V
T4141 BC338-40
T4132 BC337-40
T4136 BD808
D4131 1N4001
D4132 ZPD8V2
AENDERUNGEN VORBEHALTEN
SUBJECT TO ALTERNATION
SOURS RESERVE DE MODIFIC
CON RISERVA DI MODIFICA
RESERV EL DEREC DE MODIF
NF-ENDSTUFE 2 × 25W 29504 - 104 20
AF-OUTPUT STAGE
PRISE B F
STADIO FINALE BF
PASO FINAL FB
290192

DIGI IV


EURO-AV-BUCHSENPLATTE 29304-060 77
EURO-AV SOCKET BOARD -060 82
C I PRISES PERI-TV -060 86
PIASTRA PRESE EURO-AV -060 88
PLACA CONECTORES EURO-AV -060 93
IC230 MC14052
IC280 MC14052
EURO-AV-BU 1
EURO-AV-BU 2
CINCH AUDIO-R
CINCH AUDIO-L
CINCH FBAS
ENTF BEI-060 93 NOT FITTED IN SUPPRIME SUR MANCA PER SUPRIMIDO EN
NUR BEI 88 ONLY WITH SEUL POUR SOLO NEL SOLO CON
NUR BEI 29304-060 86/ 88 / 93 ONLY WITH SEUL POUR SOLO NELLA SOLO CON
NUR BEI 29304-060 77 ONLY WITH SEUL POUR SOLO NELLA SOLO CON
NUR BEI 29304-060 82/86/88/93 ONLY WITH SEUL POUR SOLO NELLA SOLO CON
NUR BEI 29304-060 77/82 ONLY WITH SEUL POUR SOLO NELLA SOLO CON
ENTFAELLT BEI 88 NOT FITTED IN SUPRIME SUR MANCA PER SUPRIMIDO EN
NUR BEI 88/ 93 ONLY WITH SEUL POUR SOLO NEL SOLO CON
ENTFAELLT BEI -060 88 / 93 NOT FITTED IN SUPPRIME SUR MANCA PER SUPRIMIDO EN
EURO-AV1 EURO-AV2 S-VHS/CINCH
H L L
L L H
140792